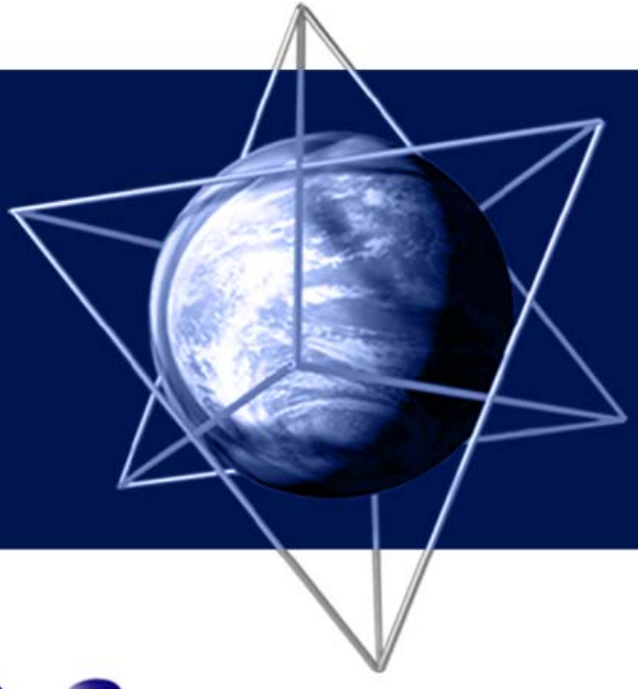

2002

Institute of practical psychophysics IPP

METAPATHIA 2,3

Institute of Practical Psychophysics

Metapathy 2
Metapathy 3

Psychophysical Investigation Program
User's Manual
ТГ 7872-4012

Moscow 2002

This program is exclusively designed to carry out psychophysical investigation.
The apparatus operating in combination with the program does not belong to the class of medical devices and therefore is not subject to registration by the committee for certification and licensing of medical practices.

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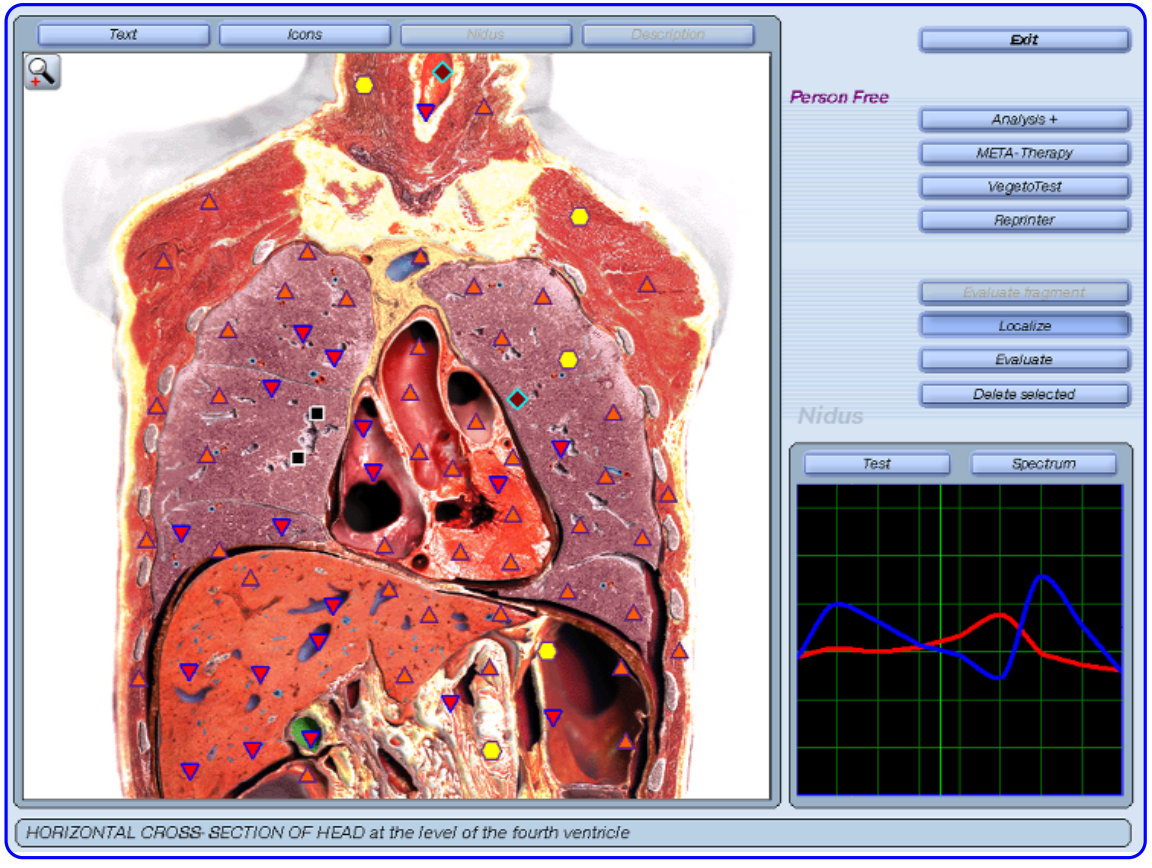
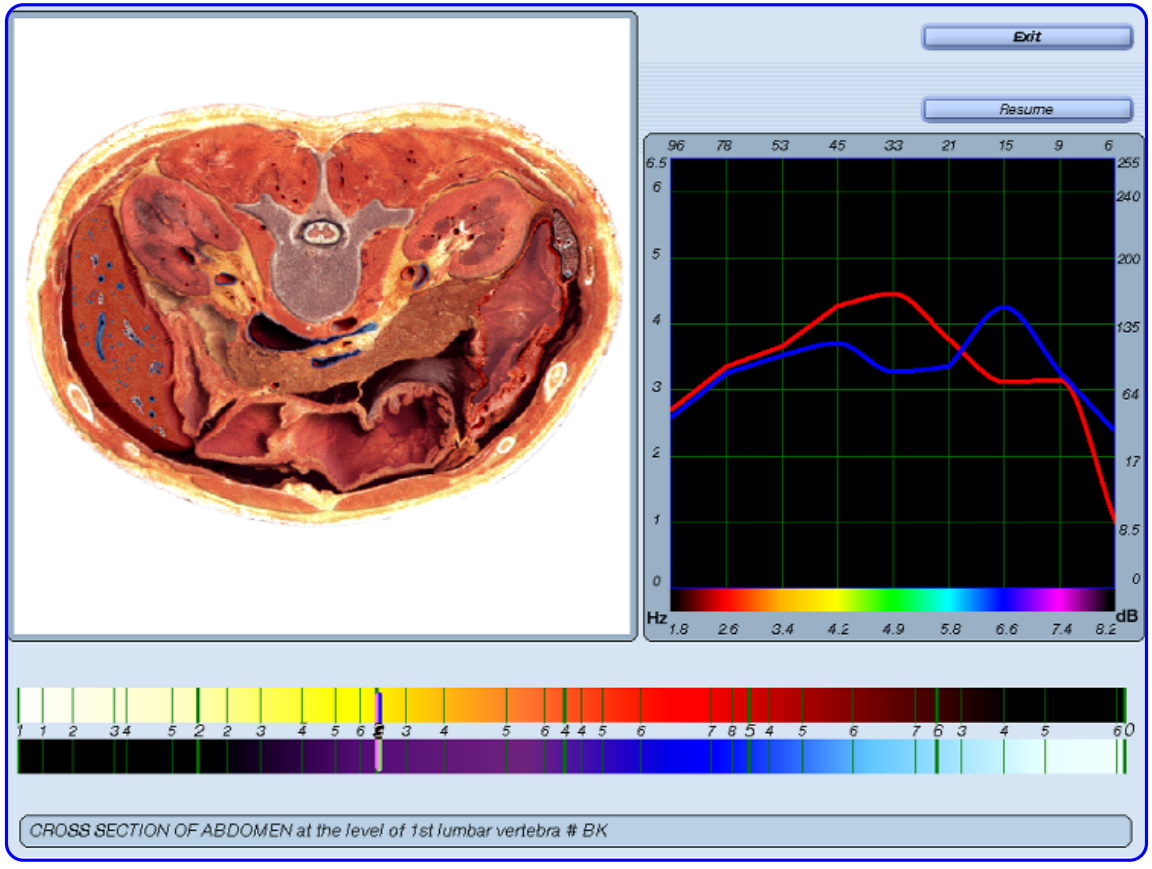
NLS analysis systems

The Institute of Practical Psychophysics has produced analog-free investigation equipment that enables to trace any states of biological object according to a change in the wave characteristics of the body's tissues, individual cells, chromosomes and even separate ferments and hormones. Nonlinear analysis systems (NLS) are the most advanced information technologies that can now, at the outset of the century, be considered the most remarkable and advantageous accomplishment of modern natural science. The diagnosis equipment based on the spectral analysis of vortex magnetic fields of biological organisms is quite unique and has no analogs in the world. Numerous experiments performed at the Institute of Practical Psychophysics confirm a close relationship between vortex magnetic fields and biological systems with these fields being used in biological systems as a means of extra - and intracellular interaction. The vortex magnetic fields plays an important part in information transfer and interaction with biological systems. How do biological systems recognize and isolate the necessary information from the background noise and in what manner do extra- and intracellular communications take place? The research on energy fields around plants and animals done at the Institute has brought to the conclusion that there exists an extremely weak low-frequency vortex magnetic field around biological systems. In trying to figure out the world of energy fields of living organisms we drew close to the comprehension of the biofield phenomenon which people have known from time immemorial, with some of the evidence found in the Yajur - Veda and traditional Chinese medicine.

The scientific discoveries underlying this method are a technological addition to the centuries-old Oriental medicine based on energy conceptions of acupuncture as a means of the biological system control. If we turn to the Chinese meridian system we will learn of the mysterious tsi flux which in energy way reminds us of coherent photon flux. Experiments on rabbits showed that animals, just like man, have a system of extremely fine tubular structures (about 0.5 to 1.5 micron in diameter). American scientist B. Kim succeeded in making a discovery according to which the terminal points of an acupuncture meridian were found out to reach the cell nucleus. There are a great many means to influence the meridian system for a therapy purpose but their effect is not great enough. According to the Theory of quantum entropy logic the information exchange in any systems occurs distantly, associatively and selectively due to quanta of electromagnetic radiation which have energy equivalent to the energy breaking down the bonds of the system's elementary structure. The principles of the Theory of quantum entropy logic give grounds to assert that biological systems with existing pathologies there arise unstable (metastable) states in which make the system's destruction much more probable. The metatron 'Oberon', that underlies the implementation of the investigation system, functions according to the principle of amplification of the initiating signal with the disintegration of metastable systems involved. In terms of physics the metatron is a system of electronic oscillators resonating at the wavelength of electromagnetic radiation

whose energy is equivalent to the energy breaking down the dominant bonds that maintain the structural organization of the organism under investigation. The magnetic moments of the molecular currents, affected by external physical fields, lose their initial orientation which causes disalignment of the spin structures of delocalized electrons of admixture center of cortex neurons; that, in turn, gives rise to their unstable metastable states whose disintegration acts as an amplifier of the initiating signal. The hardware-software complex developed at the Institute of Practical Psychophysics enables to produce a preset bioelectrical activity of brain neurons, with this activity as a background it becomes possible to selectively amplify signals hardly detectable against the statistical fluctuations and isolate and decode the information they contain. In a way the apparatus 'Oberon' takes bearings of this radiation just where it originates in order to then decode and display it on the computer screen where a virtual model of the organ is produced in certain colors. If, following the rules of quantum chromokinetics, we represent entropy values of any system as spectrum colors the tints will change from light yellow (minimum entropy values), through orange to red and purple, nearly black (maximum entropy values). More accurate theoretical calculations done by means of a computer enable to single out a number of stationary states corresponding to a certain entropy potential and selectively interacting with the spectrum of electromagnetic radiation. Computer models can give physicians a three-dimensional projection of internal organs foreshortened as desired. Colored marks that are placed upon the picture make it possible for the physician to determine the site of a pathological process on the organ's model. By comparing the range of colors of the marks and their arrangement on the organ's computer model and also dynamics of their change with time one can

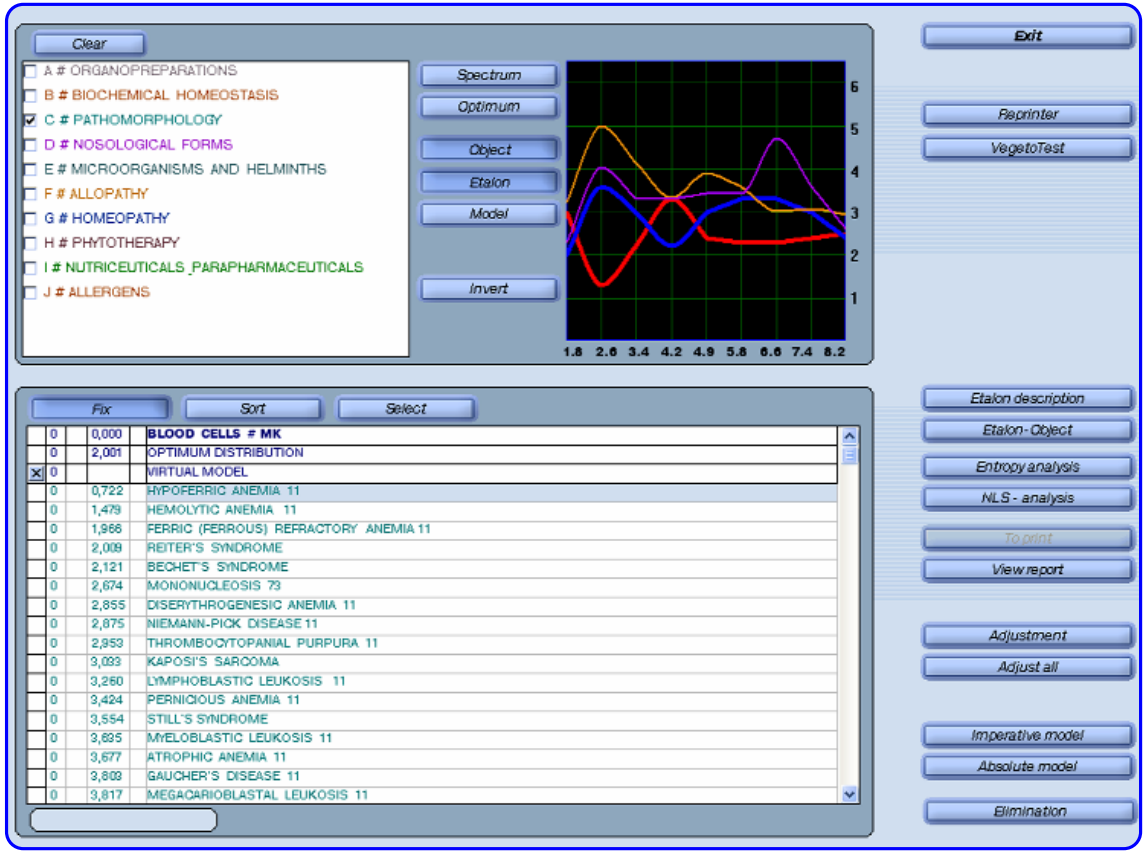



Exit
Resume
96 78 53 45 33 21 15 9 6
6.5 6 5 4 3 2 1 0
255 240 200 135 64 17 8.5 0
Hz
dB
1.8 2.6 3.4 4.2 4.9 5.8 6.6 7.4 8.2
CROSS SECTION OF ABDOMEN at the level of 1st lumbar vertebra # BK

judge how the processes of disintegration of biological structures go on and make health prognoses. In order to define a pathology area the physician goes on investigating separate models of organs on continually decreasing scale produced on the screen by the computer until he or she localizes a pathology nidus to degree of accuracy.

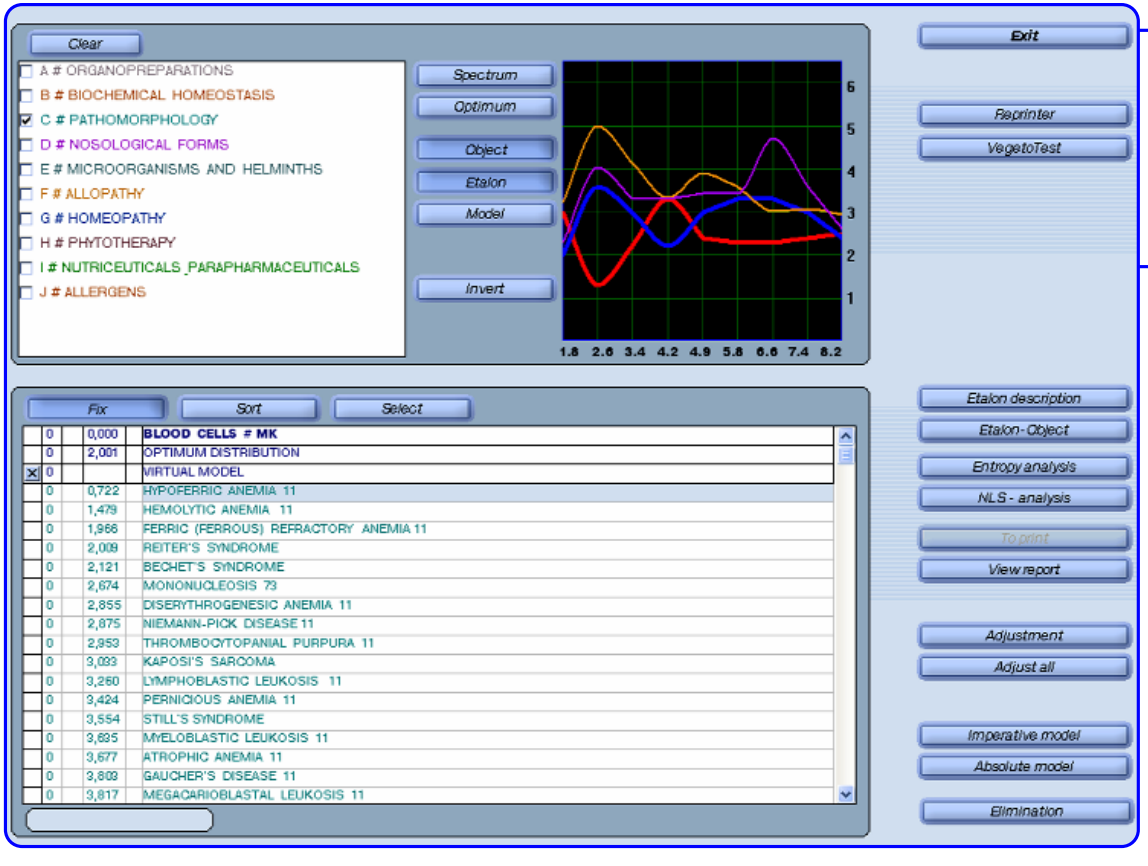
It's for the first time that the most advanced information technologies in the field of active homeostasis control have been introduced into the world market. The research workers of the Institute of Practical Psychophysics have made a breakthrough in the development of information preparations for the correction of the disturbed balance-homeostasis within the body and the neutralization of environmental and infection pathological agents - they have put a new superactive homeostasis control program on the market. The researchers at the Institute were the first to succeed in producing most effective equipment that is capable of tuning to the frequency of master pulses automatically, without human interference, as well as of detecting and correcting defects and pathologies in organs and body cells on its own through a combination of different specifically modulated magnetic oscillations recorded on a matrix. The fundamental concept in the development of this equipment was a hypothesis that the human body has an electromagnetic information framework which is able to respond to external radiation. The staff of the Institute of Practical Psychophysics managed to bring together different separate trends of valeology and thus actually make a quantum leap - work out a method of active homeostasis control. They dealt with homeopathy, Chinese acupuncture with its further elaboration by Folle, Morell and Schimmel; the Indian Yajur -Veda and the theory of chakras; spin theory; phytotherapy and other methods.

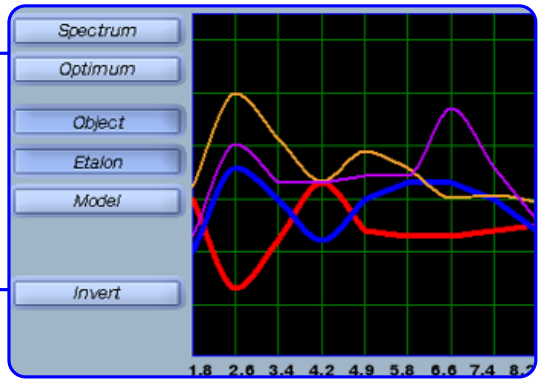
Theoretical and experimental work that made it possible to produce apparatus 'Oberon' - a nonlinear quantum generator



was initiated by Nikola Tesla, a man of genius in electronics at the end of XIX century. Later it was carried on by some other scientists who are worth mentioning. J. Lakhovsky, an outstanding French researcher, studied the effect of radiofrequencies on animals` health and the plants condition. American scientist of genius R. Rife conducted research not only on the effect of radiofrequencies but also on the effect of electrical frequencies on the human biofield. In 1950 in Germany R. Folle discovered and worked out a system of electrotesting by acupuncture points of the human body. Unlike Folles` electropuncture diagnosis method in which the energy potentials of organs and systems get measured through biologically active points (BAP) reflecting the body condition indirectly (often with a considerable error), the NLS-analysis method developed at the Institute of Practical Psychophysics makes evaluation of the organ condition directly due to the resonance amplification of radiation of the organ under investigation and to the non-contact taken by means of trigger sensors. Every organ and every cell have their own, distinctive of them only oscillations which are stored in the computer memory and can be displayed on the screen as a certain graph which represents the conditions of the information exchange between the organ (tissue) and the environment. Every pathological process has also an individual graph distinctive of it only. Stored in the computer memory are a great number of pathological processes with a degree of pronouncedness, age, sex and other variations taken into account. After reading the frequency characteristics of the biological object the investigation apparatus can compare the degree of their spectrum similarity to reference processes (healthy, pathology-affected tissues, infection agents) and define the closest pathological process or a tendency to its origin. With combined processes the virtual diagnosis mode enables to make a differential diagnosis of each process. Another wonderful opportunity offered by the NLS-analysis method is medicinal testing. The investigation sys-

NLS analysis systems

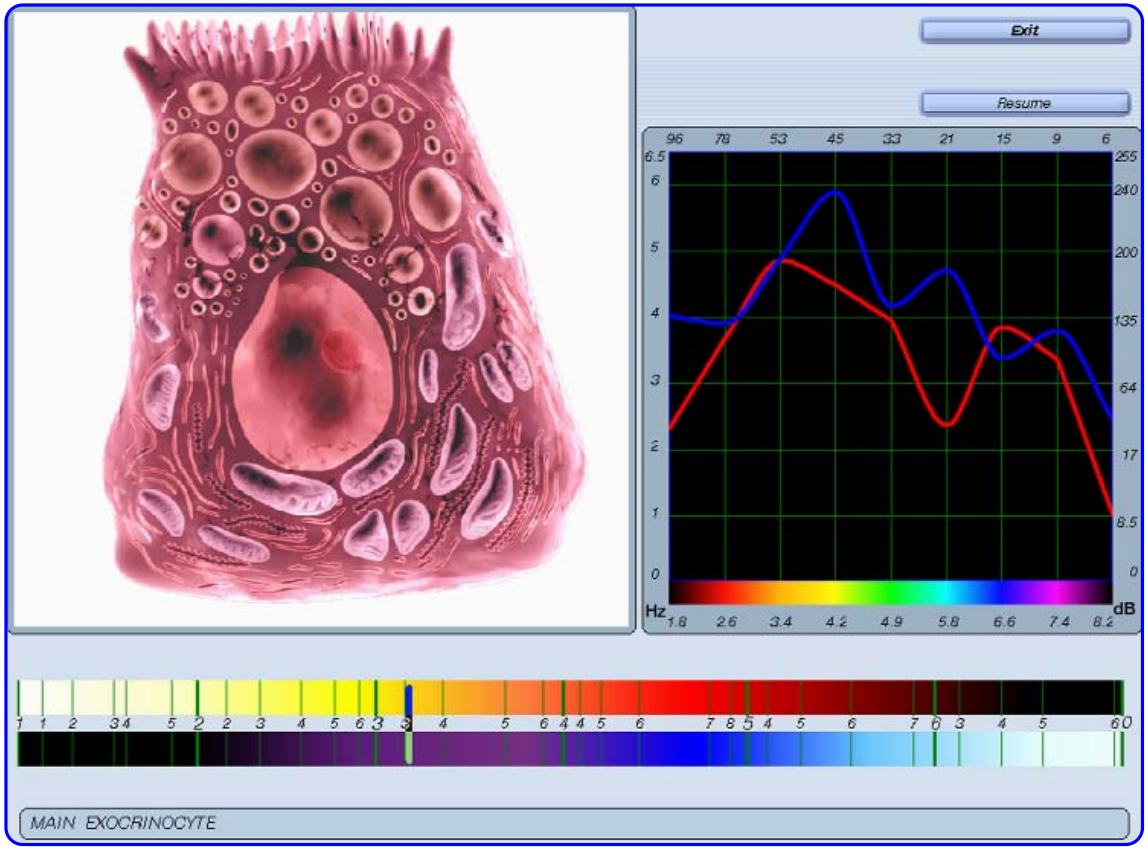




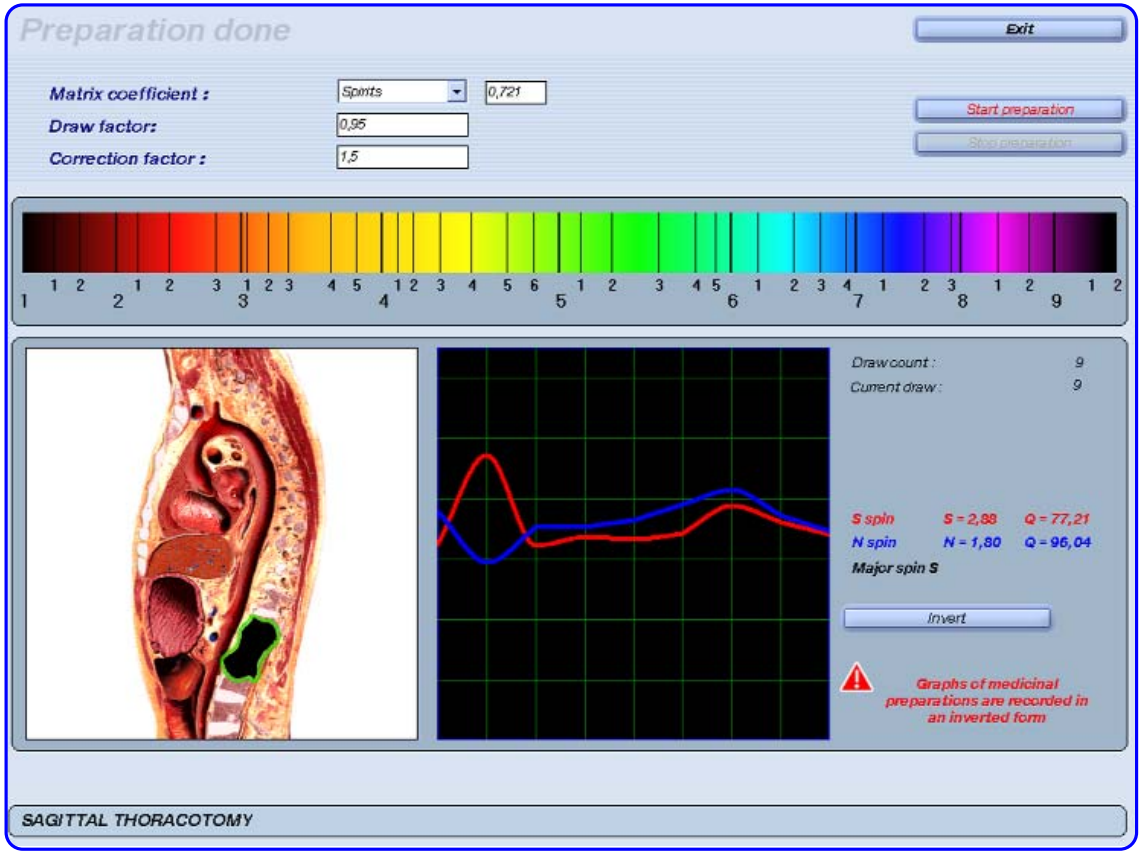
tem has unique opportunities to record frequency fluctuations of any preparation and make a computer comparison at the same moment among the spectral characteristics of all preparations stored in the computer memory (the number may to a few thousands) and the characteristics of the pathological process and thus find out the most efficient remedy.

In the light of what was said above any disease can be represented as a disturbance of harmonic synchronization in a biological object. The disturbance may be brought about by different kinds of causes which in come cases, in turn, can be regarded as disharmonizing electromagnetic oscillations that make blocks (noise) and interfere with normal functioning of the body. One can try to solve the problem of elimination of originating disharmonic oscillations proceed from some laws of physics. Apparently, the most simple way would be to use electromagnetic oscillations with the opposite sign in order that the algebraic sum of disharmonic and inverted electromagnetic oscillations would become equal to zero. Guided by these conclusions, in the mid '70s Dr. F. Morell along with electronics engineer E. Rachet, invented a method and a device 'MoRa'. The method of information therapy (META-therapy) is a further advancement of the method 'MoRa' in the solution of problems with restoring the body's normal functioning in the cases of acute or chronic diseases. META-therapy is a means to influence the body through a combination of different modulated electromagnetic oscillations emitted from the apparatus 'Oberon'.

The scientists of the Institute got interested in the experiments by Prof. S. Smith from Manchester University who proved that water could 'remember' coherent frequencies to whose radiation it was exposed in a variable magnetic field, and in its structure it retains the information about those frequencies for a certain period of time. That enabled us to make an effective correction of the disturbed balance within the body by means of information preparation recorded on a matrix. Information preparations (metazodes) are specific combinations of coherent frequencies found by the computer and are used to get ready-made dosage forms with a directed effect. They are produced by means of the apparatus that transfers the frequency (spectral) information taken from the pathology nidus onto a matrix (water, alcohol, lactose) used in the course of treatment. The effect of metazodes consists in the awakening of the body's hidden reserves. This accounts for a wide scope of influence of preparations and absence of harmful side effects and contraindications when prescribed in parallel with conventional remedies.

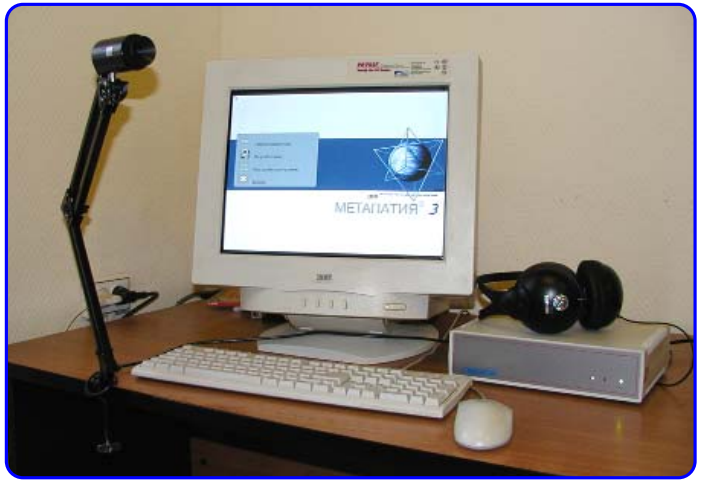


V.I. Nesterov
Director of the Institute of Practical Psychophysics


Preparation done
Exit
Matrix coefficient :
Spirits
0,721
Draw factor:
0,95
Correction factor :
1,5
Start preparation
Stop preparation
Draw count :
9
Current draw :
9
S spin
S = 2,88
Q = 77,21
N spin
N = 1,80
Q = 96,04
Major spin S
Invert
Graphs of medicinal preparations are recorded in an inverted form
SAGITTAL THORACOTOMY

Description and Field of Application

The apparatus to telemetrically process data for nonlinear analysis - 'Oberon' (hereinafter apparatus) can be used to make an express evaluation of the body conditions by recording changes in organs, histological or cytological structures, exercise dynamic control over the state of homeostasis and predict stages in treatment or development of complications. The apparatus can be used in research centers of scientific-research Institutes.



Purpose

The apparatus enables to substantially cut the time for an express evaluation of the condition of the body as a whole system. The apparatus id designed to record changes in organs, histological or cytological structures and enables:

- to get a qualitative evaluation of the functional state of the body in terms of topical analysis;
- to check the effectiveness and effects of different methods employed to influence the body;
- to assess the adaptive abilities of the body;
- to make an analysis of the dynamics of change in the functional state of the body in the course of treatment;
- to reveal the primary nature of the nidus of functional disturbance;
- to define the character of a pathology using expert systems;
- to assess the main variables of homeostasis.

The apparatus is designed to operate solely in combination with a computer complex based on IBM-compatible computers and the software worked out by the parent enterprise.

Use of 'Oberon' apparatus

The minimum system requirements that the computer complex is supposed to meet:

" Operational system - Windows 98/2000/Millenium/XP;
" CPU - Pentium III not less than 500 MHz;
" RAM - 128 MB;
" Video card SVGA Hi-color 1024x768 8 MB or more;
" Printer (color inc-jet).
" Free space on hard disk - al least 800 MB;
" One free serial port;
" CD-ROM;
" Uninterruptible power supply

Origination

Resulted from medical, biological, physical and technological research made by a group of authors including V.I. Nesterov, Y.V. Nosov and D.V. Koshelenko.
RF Patent № 200161075 of 02.16.2001.

Special requirements

Requirements to be met fulfilling functional tasks in the investigation procedure. The apparatus can ensure a diagnosis session according to the algorithm introduced into the program.
During the diagnosis session influence on the patient is exercised by the peripherals of the apparatus placed around the patient:

" Magnetoinductors - on the patient's head, above the right (R) and the left (L) temples;
" Infrared scanner - symmetrical to the eyes, at a distance not more 80 cm.

There is also an opportunity to enter data based on provisional diagnosis and patient's complaints.
The service life of the apparatus is at least 5 years. The apparatus is designed so that it can ensure safety to the patient and operating staff. Emergency stop does not cause any bad side effect.

Principle of operation and operational procedure.

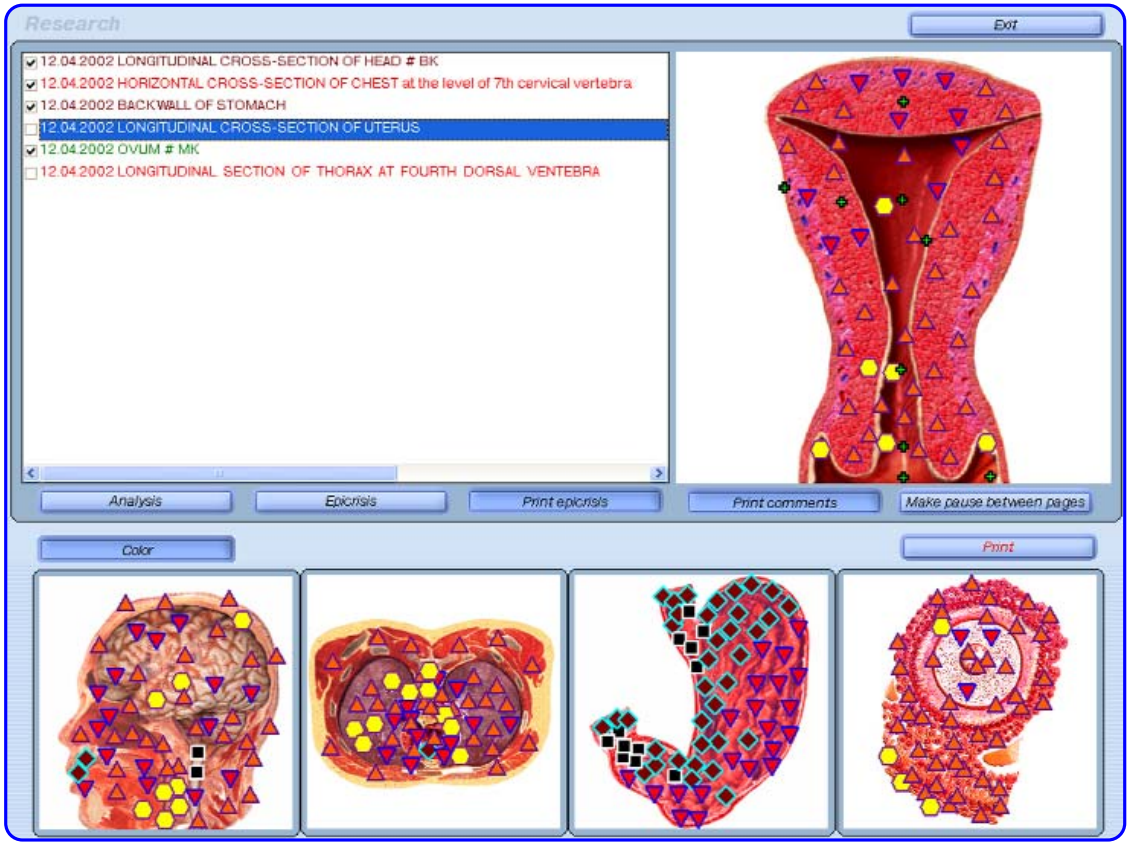
The apparatus operates according to the principle of amplification of the initiating signal with disintegration of the metastable structures. Affected by the external electromagnetic field, magnetic moments of molecular currents in admixture centers of cortex nerve cells lose their original orientation which results in disalignment of spin structures of delocalized electrons giving rise to unstable metastable conditionals in them. The disintegration of these conditions acts as an initiating signal. In terms of physics the apparatus is a system of electronic oscillators resonant at wavelengths of electromagnetic radiation with their energy being adequate to the energy of breaking down the dominant bands that maintain the structural organization of the biological object. The apparatus enables to produce a present bioelectrical activity of brain neurons, with this activity as a background it becomes possible to selectively amplify signals hardly detectible against the static fluctuations. The information about the specific temporary conditions of organs and tissues is gathered on a non-contact basis by means of a 'trigger sensor' developed with the aid of modern information technologies and micro circuitry. The sensor detects faintly detectible signal fluctuations picked out from the average statistical noise characteristics of fields and converted to a digital sequence processed by a microprocessor to be transmitted to the computer through the interface cable.

Capacity and productivity

Last name Smith
Name Anthony
Middle name J.
Age 28
Phone 9238493
Sex M
Address Eliot st. 23
Search
Exit
Reception by Dr. George Edison
New card
Select card
Time 9:48/0:42
Print epicrisis
Save to disk
Print research
12.04.02 LONGITUDINAL CROSS- SECTION OF HEAD # BK
12.04.02 FRONTAL CROSS- SECTION OF HEAD
12.04.02 HORIZONTAL CROSS- SECTION OF HEAD at the level of aqueduct of cerebrum
12.04.02 CROSS - SECTION OF NECK
12.04.02 SAGITTAL THORACOTOMY
12.04.02 CORONAL THORACOTOMY at the level of ascending part of aorta, front view
12.04.02 CORONAL THORACOTOMY at the level of venae cava, front view
12.04.02 HORIZONTAL CROSS- SECTION OF TRUNK at the level of shoulder joints
12.04.02 LONGITUDINAL SECTION OF THORAX AT FOURTH DORSAL VENTEBRA
12.04.02 HORIZONTAL CROSS- SECTION OF CHEST at the level of 7th cervical vertebra
12.04.02 HORIZONTAL THORACOTOMY at the level of the 6th THORACAL VERTEBRA
12.04.02 DIAPHRAGM
12.04.02 ORGANS OF MALE SMALL PELVIS, right side
12.04.02 HORIZONTAL CROSS- SECTION OF HEAD at the level of the fourth ventricle
12.04.02 ORGANS OF RETROPERITONEAL SPACE # BK
12.04.02 CROSS SECTION OF ABDOMEN at the level of 1st lumbar vertebra # BK
Graphic
ResearchType
Research
Current analysis
Comparative analysis

The apparatus is designed to diagnose one patient at a time. It takes about 10 minutes to record the patient's personal data and enter some anamnestic data. The operating cycle takes 30 minutes to 2.5 hours. The apparatus can run non-stop for 12 hours. The operating duties and their adjustment and control are ensured by the computer according to the established program. The information about the results of the diagnosis for a specific patient is displayed on the monitor screen, is kept on a separate file on a hard disk and can be transferred to an individual diskette. The current information is displayed on the monitor screen.

Investigation results can be printed out by a color printer with one to four pictures on an A4 size sheet.
Epicrisis can be printed separately.



Technical requirements

Apparatus design, major parts:
an electronic unit with a three-conductor power supply cord;
software on CD-ROM.

Removable components:
magnetoinductors - right (R) and left (L) encased in headphones;
an infrared scanner;
a resonator;
an interface cable.

Accessories:
a device to fix and adjust the infrared scanner.

Means of packing:
the apparatus, its removable parts and a set of Operational Documentation are supposed to be encased it polythene and packed in a packing suitcase.
The apparatus should be complete with Operational Instructions in accordance with GOST 2.601-95, including:

operational manual;
user's guide on CD-ROM.

Apparatus dimensions, mm: width - 225; length - 180; depth - 65.
Weight of the apparatus in assembly - not more than 1.6 kg.
Magnetic intensity on the surface of the magnetoinductors - 20 mT ±1.
Type of modulation in the magnetoinductors' circuit - from 1.8 to 8.2 Hz.
Interruption rate control pitch - 0.1 Hz.
Pulse ration from 0.5 to 95% with a 5% pitch.
Modulation frequency: Low-frequency modulation - 240 Hz. High-frequency modulation - 1.5 - 4.5 GHz.

The sensitive element is a noise-voltage generator (with constructively revised 2Г401В diode used as a noise source). The element is energized by constant direct current with a value of several microamperes. The current value is selected at the bench in the course of adjustment.
The information signal is picked up off the sensitive element and is passed along an amplification path.
The gain factor of the differential amplifier is not less then 30 dB.
The frequency band for processing information spikes in the noise signal is in the range of 10 to 200 kHz.
The toggle frequency of the shift register is 1.0 ± 0.1 MHz.

Power supply characteristics.
The apparatus operates from AC mains with a frequency of 50±1 Hz and a rated voltage of 220 V, the supply voltage can fluctuate ± 10% from the rated value.
The power consumed by the apparatus is under 20 W.

Time characteristics.
Time for setting the operating duty after the apparatus has been switched on does not exceed 30 s.
Time for switching off the apparatus is about 1 s.
The apparatus is supposed to provide recurrent short-time duty with cyclic recurrence - 60 min. in operation followed by a 5-minute break for 12 hours with a subsequent 30-minute interval.

Control unit characteristics.
The control unit consists of a microprocessor unit and a pulse duration modulation circuit.
The interaction of the computer, apparatus and peripherals is determined by a program incorporated in the micro-processor.
The diagnosis procedure is controlled from a keyboard and by means of a mouse.

Requirements for the apparatus software.
The program is supposed to receive control information from the head program from IBM PC via RS232 standard interface and convert it into control signals.
Besides, the program receives information from the peripherals and transmits it to the head program in IBM PC through the standard interface.

The program is materialized and stored in the internal flash memory of the microprocessor (single-chip microcomputer) and comprises:
the main program body;
a program that receives control information;
a program that analyses control information;
a subprogram that produces master pulses;
a subprogram that reloads the real-time timer;
a subprogram that receives information from the noise sequence;
an information output to the head program.
The head program was developed using Borland Delphi programming medium, realized and recorded on IBM PC hard disk and can operate under the operational systems Windows 98/2000/Millenium.
The information used by the program during the operation is stored in Paradox tables and binary files.
The program is secured from unauthorized copying. The program can only be installed and started with the apparatus 'Oberon' switched on.

Maintenance conditions.

- The apparatus is resistant to changing weather conditions during operation or storage in accordance with GOST P 50444 standard for УХЛ class 4.2 enclosure.

- In terms of mechanical influence the enclosure corresponds to GOST P 50444 standard, group 2. The external surfaces of the apparatus are disinfection-resistant according to OST 42-21-2-85 standard.
The apparatus can be transported by any sheltered means of transport, excluding non-heated plane compartments.

The apparatus resistant to:
- mechanical influence according to GOST P 50444 standard for group 2 goods;
- weather conditions according to GOST P 50444 standard for type 5 storage conditions.

Requirements for the engineering staff.

Preventive maintenance and repairs to the apparatus are supposed to be carried out by an electronic engineer.

Safety requirements

The apparatus is safe for the patient and the attending staff who are admitted to operate or service it as stated both during the trouble-free operation and in the cases of a failure or preventive maintenance. In terms of electrical safety the apparatus corresponds to the requirements of GOST P 50267.0-92 standard (for class 1, type B goods) and GOST P MEK 601-1-1-96 standard.
The apparatus is supposed to be provided with a power supply plug manufactured as a whole with the power cord. It is to be plugged into an AC power stationary outlet having a contact with a protective grounding conductor of the fixed wiring according to GOST P 50267.0 standard (drgs. 1 and 5, item 52.2).
The design of the apparatus ensures safety when the power supply is interrupted and then resumed unless the interruption is made on purpose, according to GOST P MEK 601-1-1 standard.

Requirements for electromagnetic compatibility.

The level of radiofrequency emission produced by the apparatus with the magnetoinductors switched on meets the requirements of GOST P 50267.0.2, paragraph 36201 and does not exceed the values specified in the standards.
GOST P 23450 and Norms 5B-80 for high-frequency equipment;
GOST 29216 for information technology equipment.
The apparatus meets the requirements for noise immunity in accordance with GOST P 50267.0.2, paragraph 36.202.
The apparatus and its components can reach extreme temperatures according to the requirements of GOST P 50267.0, paragraph 42.
The corrected sound power level produced by the apparatus at a distance of 1 m does not exceed 60 dB.

The materials and coating used for the apparatus do not give off harmful substances and are permitted for everyday use.

Reliable requirements.

According to the effect of possible failure the apparatus should be referred to Class B in compliance with РД50-707-91.
The average failure-free service time is not less than 3.000 hours.
The average life time till the apparatus becomes unfit for use is not less than 5 years.
The rated probability of continuous trouble-free operation of the apparatus is P(T)=0.85 with T=600 hours.

Design requirements

Protective and decorative coating of the apparatus ensures corrosion resistance of all units and parts for УХЛ 4.2 operation conditions according to GOST 15150 and is applied in compliance with the requirements:

- metal and non-metal covering according to GOST 9.301;
- varnish and paint coating according to GOST 9.032, IV or over.

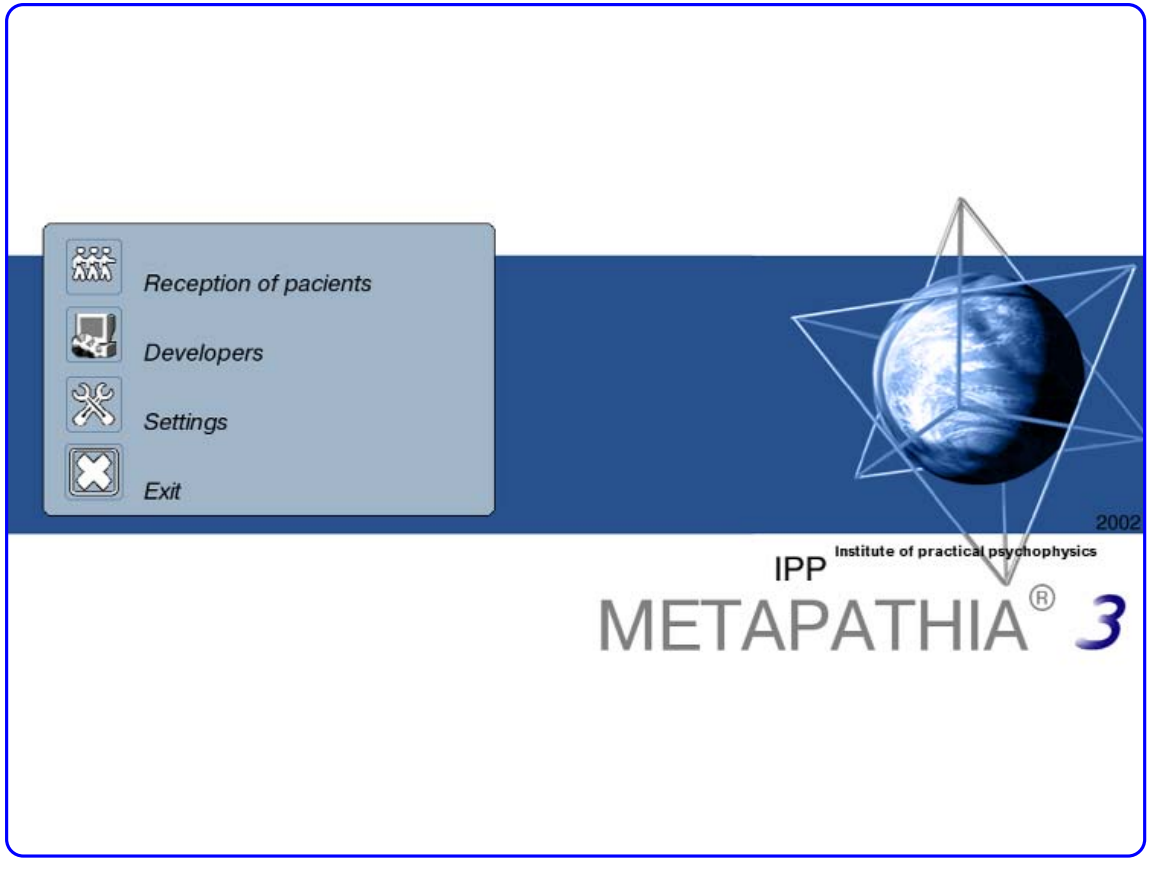
Electronic unit dimensions - not more than 255x180x65 mm.
Weight of the apparatus complete with the peripherals - about 1.6 kg.
The apparatus has a connector to be plugged into the serial computer port by means of a standard cable.
The device for installing and fixing the infrared scanner enables to move the scanner with three degrees of freedom and a radius of up to 60 cm.
The design meets the modern requirements for ergonomic aesthetics.
Patent cleanliness has been ensured in the RF, USA, Czech Republic, Germany, Bulgaria, Japan, Korea, Netherlands and Belgium.

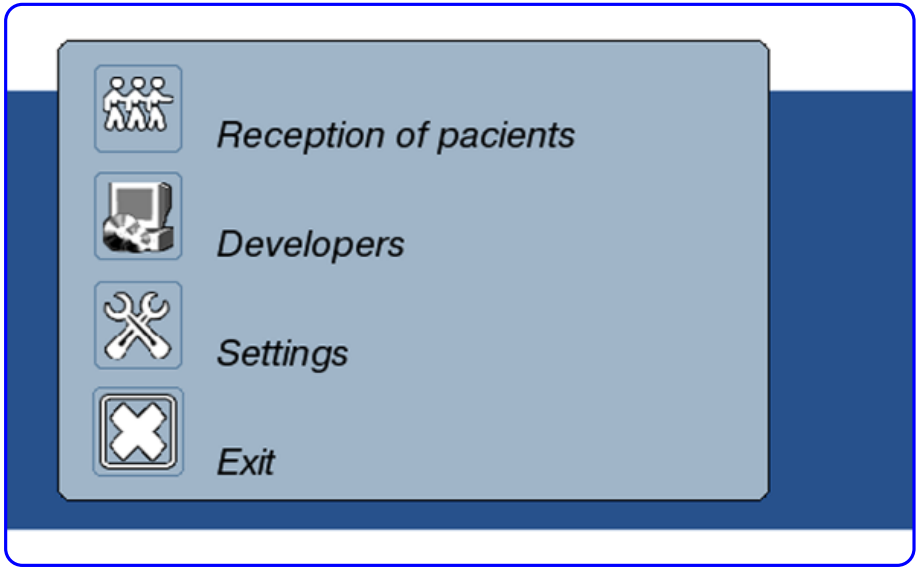
Requirements for Technical Documentation.

The technical documentation for the apparatus includes:
project ТУ according to GOST 2.114-95;
operational manual according to GOST 2.601-68.

Metapathy Program

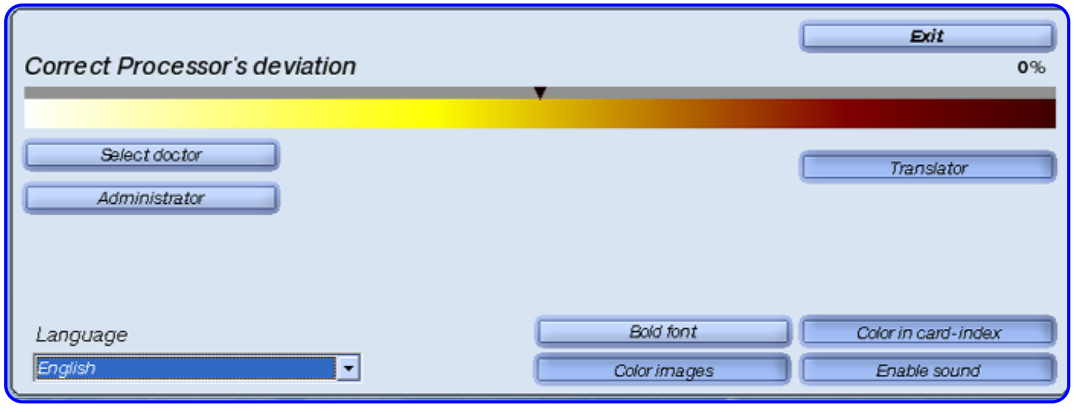
The Metapathy program is designed to carry out computer-assisted nonlinear analysis and virtual information testing and can also be used to make information preparations (metazodes) and carry out META-therapy.





Starting the program displays a group of buttons called the **Main Menu.**
Pressing the button **'Patient reception'** enables you to start working with the Program.

Pressing the button **'Credits'** enables you to get information about the originators of the program.



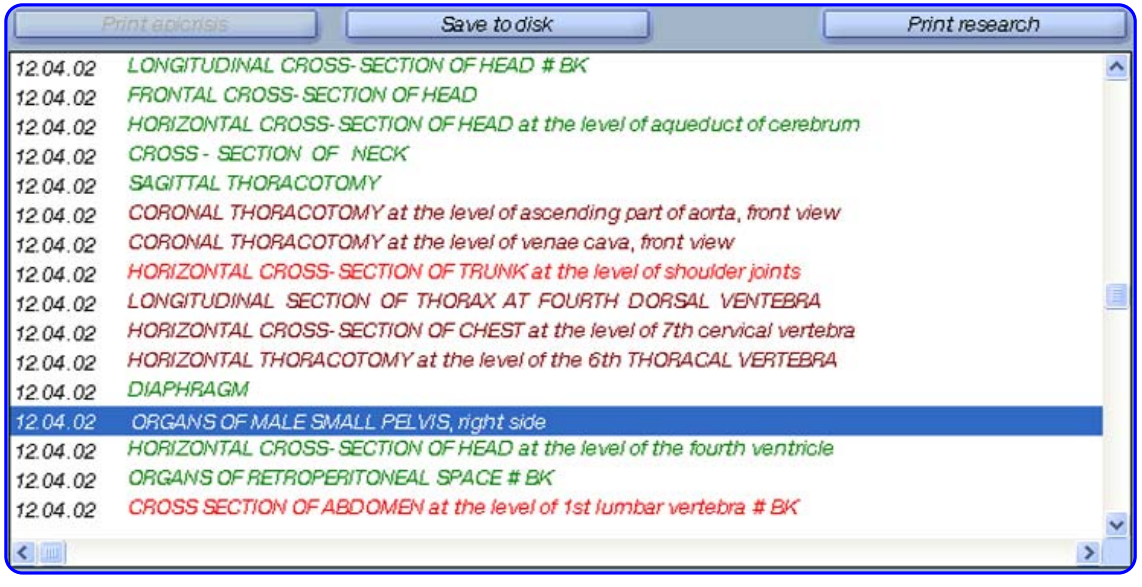
Pressing the button **'Settings'** displays a tuning form which enables you to set Russian or English, switch on or off the sound, change font size or correct the processor deviation if required. The correction of the processor deviation is made the following way. Moving the triangular mark above the scale you can correct the graded evaluation of the point on the organ projection should the evaluation of the point change as a result of a special feature of the processor as compared to the processor considered as a standard one.

The button **'Doctor selection'** enables to pick out a doctor from the list to carry out the investigation of this particular patient.

Здесь же Вы можете:
Клавишей **“Цвет”** сделать все снимки цветными, повторное нажатие на эту клавишу делает их черно-белыми.
Клавиша **“Цвет в картотеке”** позволяет в списке проведенных исследований выделить цветовой гаммой строки названия органа (гистологической структуры), с разными функциональными состояниями:

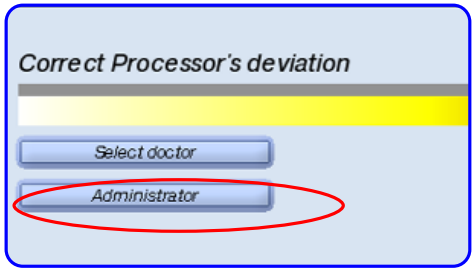
Besides, the following is possible:
Pressing the button **'Color'** will make all pictures colored, pressing it again will make them black and white.
The button 'Color in card file' enables to mark out on the list of completed investigations the line bearing the name of an organ (histological structure) in different colors depending on the functional state:

Green line - no pronounced functional changes in evidence.
Red line - minor functional changes.
Brown line - pronounced functional or/and organic changes.


Print epicrisis
Save to disk
Print research
12.04.02 LONGITUDINAL CROSS-SECTION OF HEAD # BK
12.04.02 FRONTAL CROSS-SECTION OF HEAD
12.04.02 HORIZONTAL CROSS-SECTION OF HEAD at the level of aqueduct of cerebrum
12.04.02 CROSS - SECTION OF NECK
12.04.02 SAGITTAL THORACOTOMY
12.04.02 CORONAL THORACOTOMY at the level of ascending part of aorta, front view
12.04.02 CORONAL THORACOTOMY at the level of venae cava, front view
12.04.02 HORIZONTAL CROSS-SECTION OF TRUNK at the level of shoulder joints
12.04.02 LONGITUDINAL SECTION OF THORAX AT FOURTH DORSAL VENTEBRA
12.04.02 HORIZONTAL CROSS-SECTION OF CHEST at the level of 7th cervical vertebra
12.04.02 HORIZONTAL THORACOTOMY at the level of the 6th THORACAL VERTEBRA
12.04.02 DIAPHRAGM
12.04.02 ORGANS OF MALE SMALL PELVIS, right side
12.04.02 HORIZONTAL CROSS-SECTION OF HEAD at the level of the fourth ventricle
12.04.02 ORGANS OF RETROPERITONEAL SPACE # BK
12.04.02 CROSS SECTION OF ABDOMEN at the level of 1st lumbar vertebra # BK

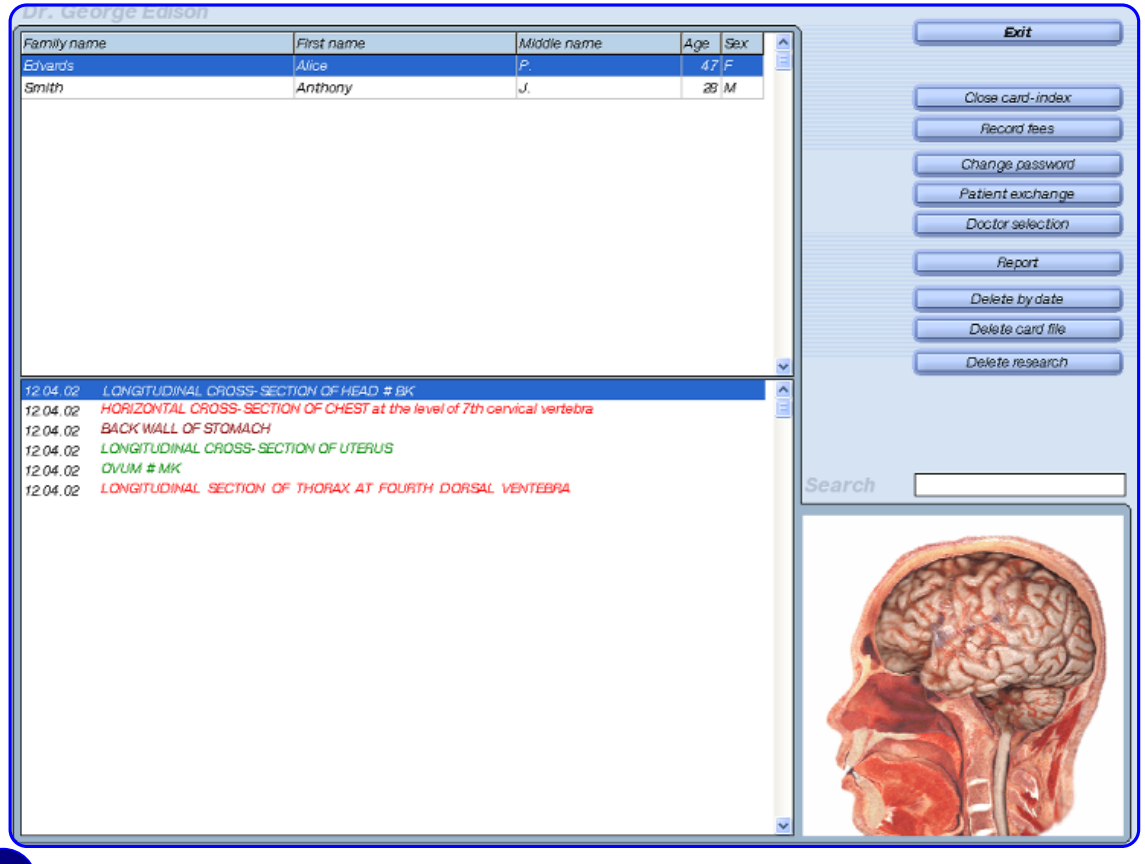
The button **'Exit'** enables to exit from the program.

Администратор



The button **'Administrator'** enables the owner of the equipment to enter the administrator mode who has the exclusive rights:

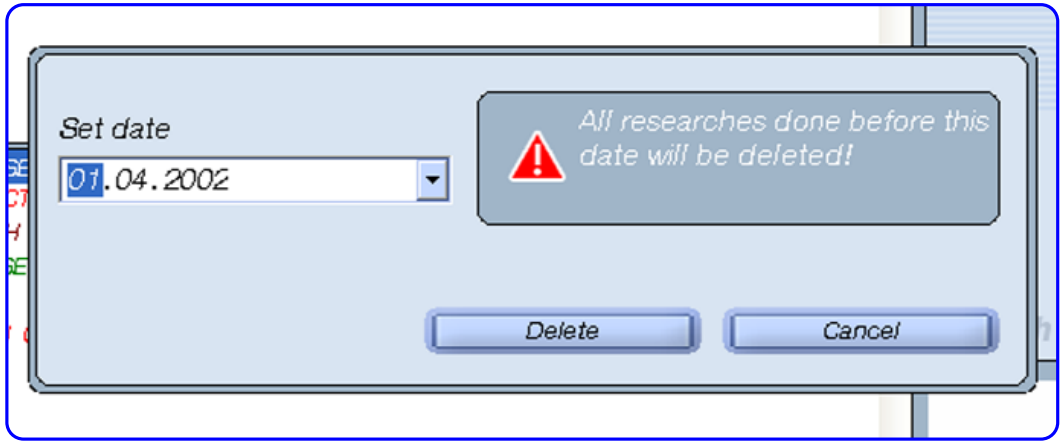
- to introduce (change) the password for access in the administrator mode using the button **'Change password'**;
- to open or close the card file of patients for any other users using the button **'Close card file'**;
- to turn on or off the mode that charges every patient for the completed investigation using the button **'Record fees'**.

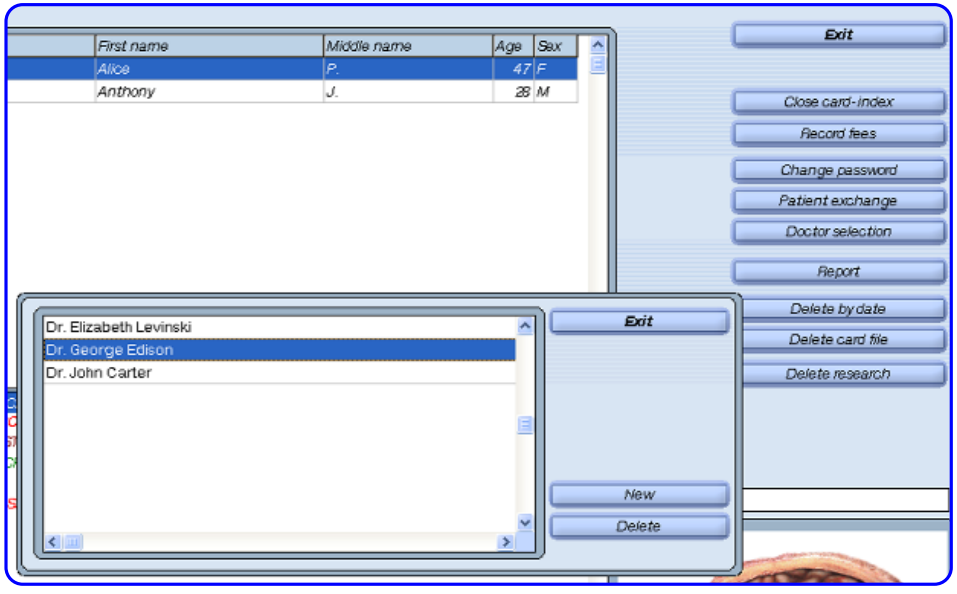


Pressing the button **'Delete card'** in the right column deletes the card of the selected patient and pressing the button **'Delete investigation'** above the list of investigations deletes an individual investigation.

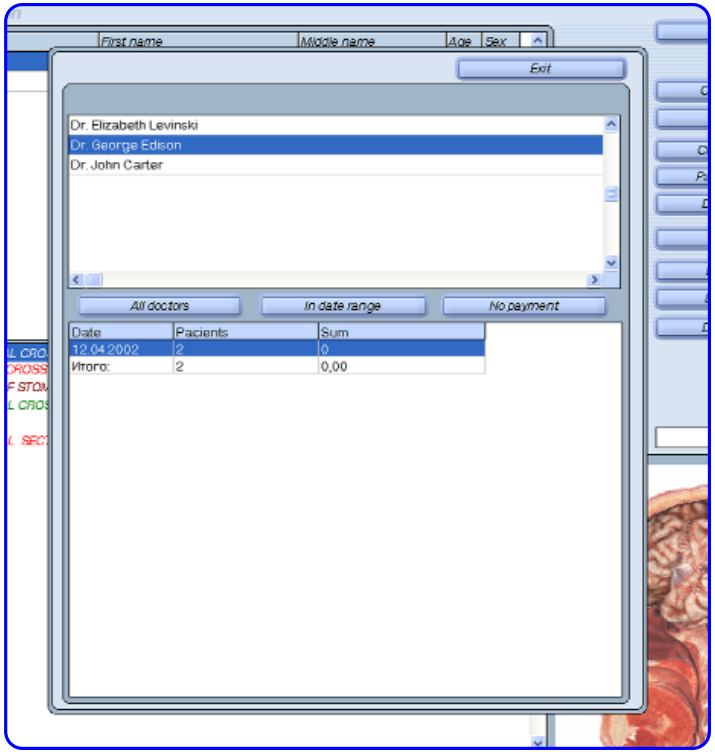
The button **'Delete by date'** enables to delete information about the investigation carried out before a particular date for all the patients.

The window **'Delete by date'** has a date set. All the investigations conducted before this date will be deleted.





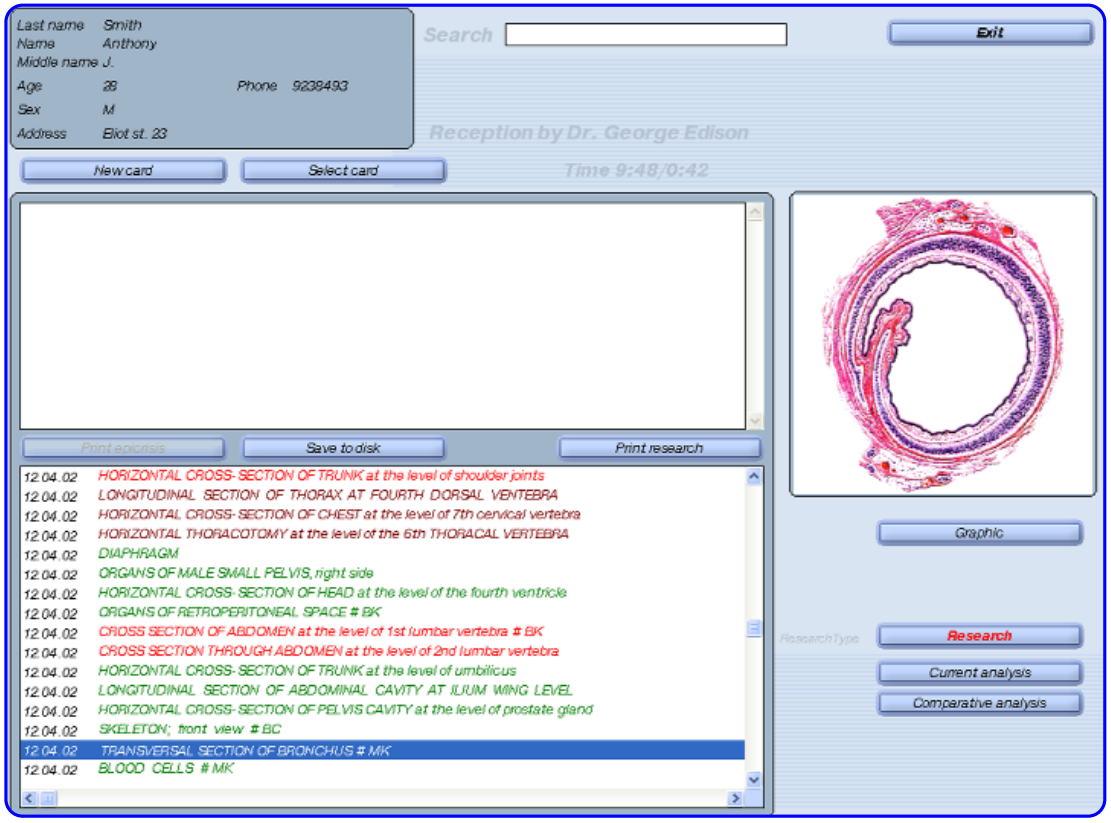
Pressing the button **'Doctor selection'** enables to look at a list of medical specialists who examine patients by means of this apparatus.
Selecting a certain doctor's name opens the card file of all patients he or she is in charge of.
Pressing the button **'New'** in this catalog can expand the list of doctor-users of the apparatus and also exclude certain doctors from the list by means of the button **'Delete'** deleting at the same time the card file of patients in their charge.
The button **'Patient exchange'** makes it possible to transfer a patient's card from one doctor to another.



The button **'Report'** enables to make a statistic analysis of the investigation time, the number of patients received and the number of investigation sessions done by every single expert and all the experts combined and also to make a financial evaluation of the work in the scientific department.

Before the investigation the patient, seated in front of the apparatus, gets the headphones put on with the magnetoinductors encased inside as marked - R for the right temple and L - for the left one. The infrared emitter is set symmetrically to the eyes at a distance of not more than 80 cm.

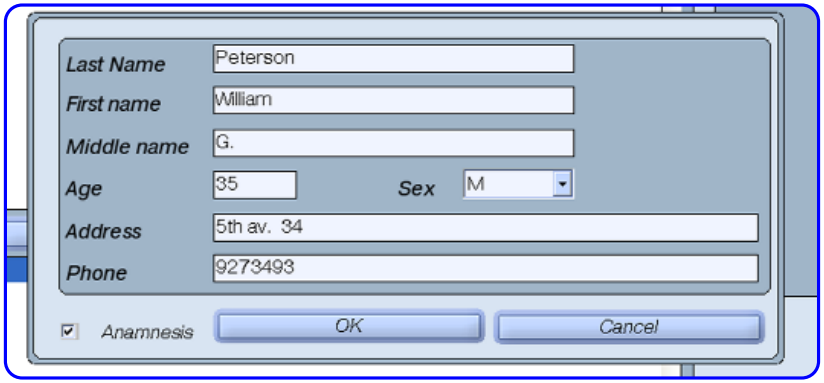
Patient card


Last name Smith
Name Anthony
Middle name J.
Age 28
Phone 9238493
Sex M
Address Eliot st. 23
Search
Exit
Reception by Dr. George Edison
Time 9:48/0:42
New card
Select card
Print epicrisis
Save to disk
Print research
12.04.02 HORIZONTAL CROSS-SECTION OF TRUNK at the level of shoulder joints
12.04.02 LONGITUDINAL SECTION OF THORAX AT FOURTH DORSAL VENTEBRA
12.04.02 HORIZONTAL CROSS-SECTION OF CHEST at the level of 7th cervical vertebra
12.04.02 HORIZONTAL THORACOTOMY at the level of the 6th THORACAL VERTEBRA
12.04.02 DIAPHRAGM
12.04.02 ORGANS OF MALE SMALL PELVIS, right side
12.04.02 HORIZONTAL CROSS-SECTION OF HEAD at the level of the fourth ventricle
12.04.02 ORGANS OF RETROPERITONEAL SPACE # BK
12.04.02 CROSS SECTION OF ABDOMEN at the level of 1st lumbar vertebra # BK
12.04.02 CROSS SECTION THROUGH ABDOMEN at the level of 2nd lumbar vertebra
12.04.02 HORIZONTAL CROSS-SECTION OF TRUNK at the level of umbilicus
12.04.02 LONGITUDINAL SECTION OF ABDOMINAL CAVITY AT ILIUM WING LEVEL
12.04.02 HORIZONTAL CROSS-SECTION OF PELVIS CAVITY at the level of prostate gland
12.04.02 SKELETON; front view # BC
12.04.02 TRANSVERSAL SECTION OF BRONCHUS # MK
12.04.02 BLOOD CELLS # MK
Graphic
ResearchType
Research
Current analysis
Comparative analysis

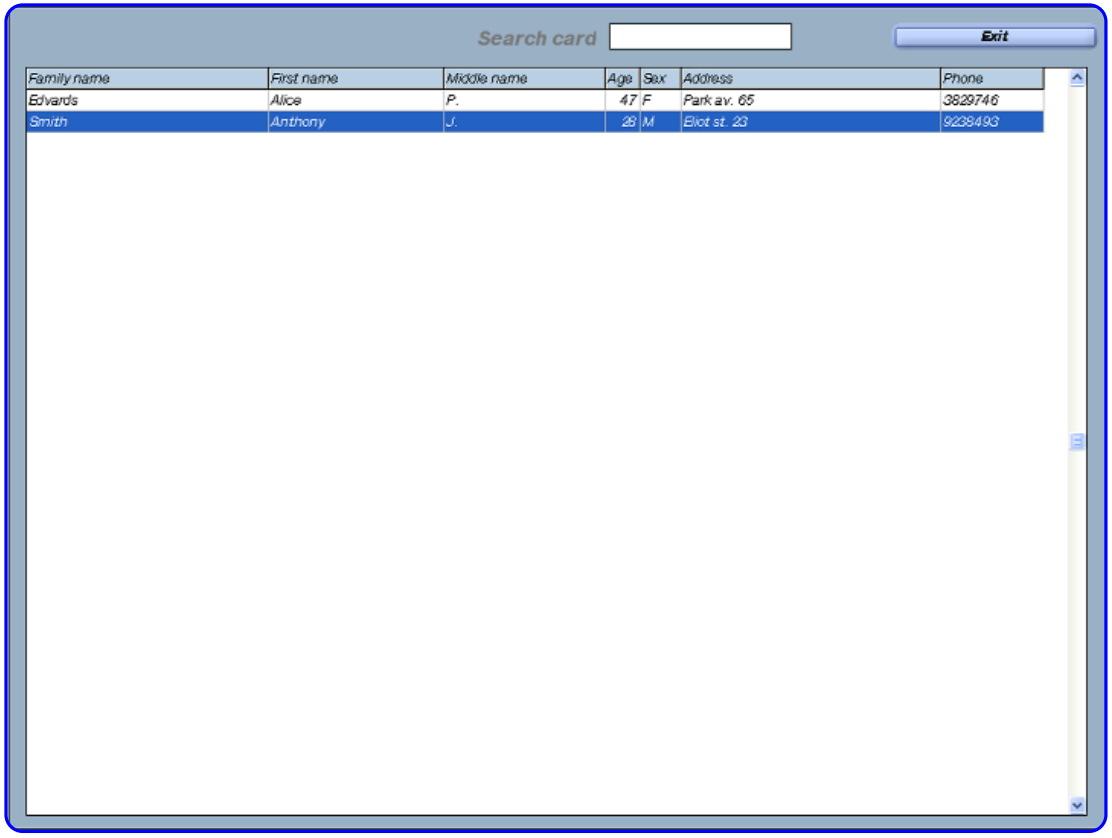
Pressing the button **'Patient reception'** displays the patient's card which contains some information about the patient, such as family name, first name, patronymic, age, sex, home address and also phone number, if available.

'Diskette record' enables to record on a diskette the results of the investigation of a specific patient with a possibility of subsequent copying into the program.
The lower table contains complete information about the investigation carried out for a particular patient.

Pressing the button **'New patient'** displays a form which is supposed to be filled out according to the requirements. It is necessary to state family name, first name, patronymic, age, address and phone number, if available. Sex is to be indicated from drop-down list.



Pressing the button **'Patient selection'** displays the form **'Patient card file'** which stores information about all the patients under the care of a specific doctor, e.g. family name, first name, patronymic, age, address and phone number, if available. One should bear in mind that this form can be closed by the administrator, if required. A quick search for the card of a specific patient in this form can be made if the patient's family name (sometimes even some of the letters of the family name will do) is entered into the line **'Search for patient's card'**. A similar system of search functions in the form **'Patient's card'**.



The button **'Print resume'** enables to print out the recommendations to the patient made by doctor according to the results of the investigation.

Pressing the button **'Print investigations'** sets a mode of preparation for the investigation printing.

The program enables to print out up to 4 pictures 100x100 mm on an A4 size sheet.

Besides, there is an opportunity of correcting the previously made epicrisis by bringing out for analysis and print (the button **'Epicrisis'** and **'Print epicrisis'**) reference processes with a high spectral similarity with the graphs taken off the patient (with the spectral difference factor (D) being less then 0.425).

The program enables to output for print the most efficient medicinal (homeopathic) preparations chosen by the doctor according to the results of the current investigation and make a correction of the previously chosen preparations)similar processes in terms of spectrum) by leaving the form of print preparation for the mode of analysis (the button **'Analysis'**).

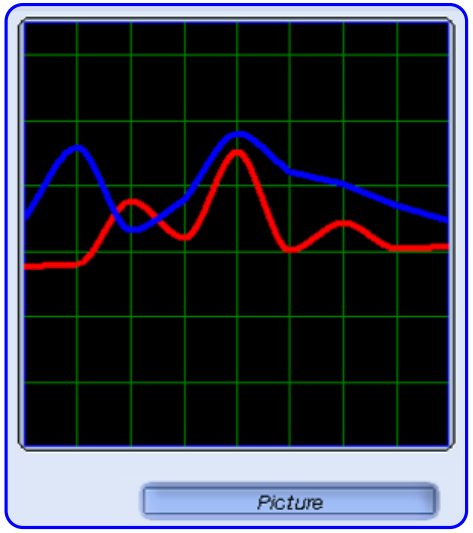
The button **'Print comments'** enables to print out some additional recommendations and the doctor's commentary as regards the patients.

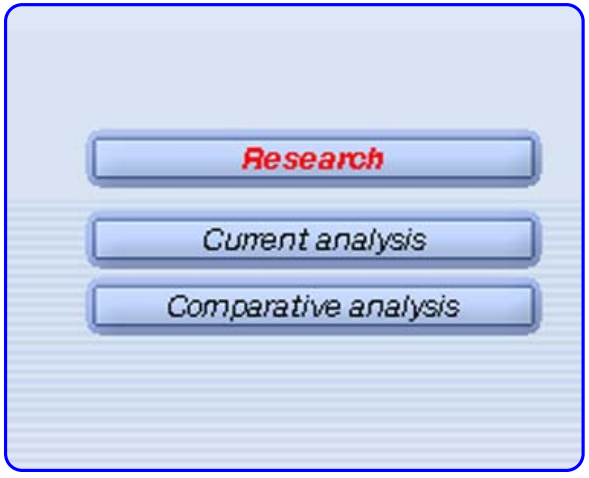
The button **'Pause between pages'** enables to interrupt printing for a very short time to b able to print out the results on both sides of the sheet.

The button **'Color'** makes it possible to make colored pictures when pressed and black and white when released.

The button **'Print'** starts printing.

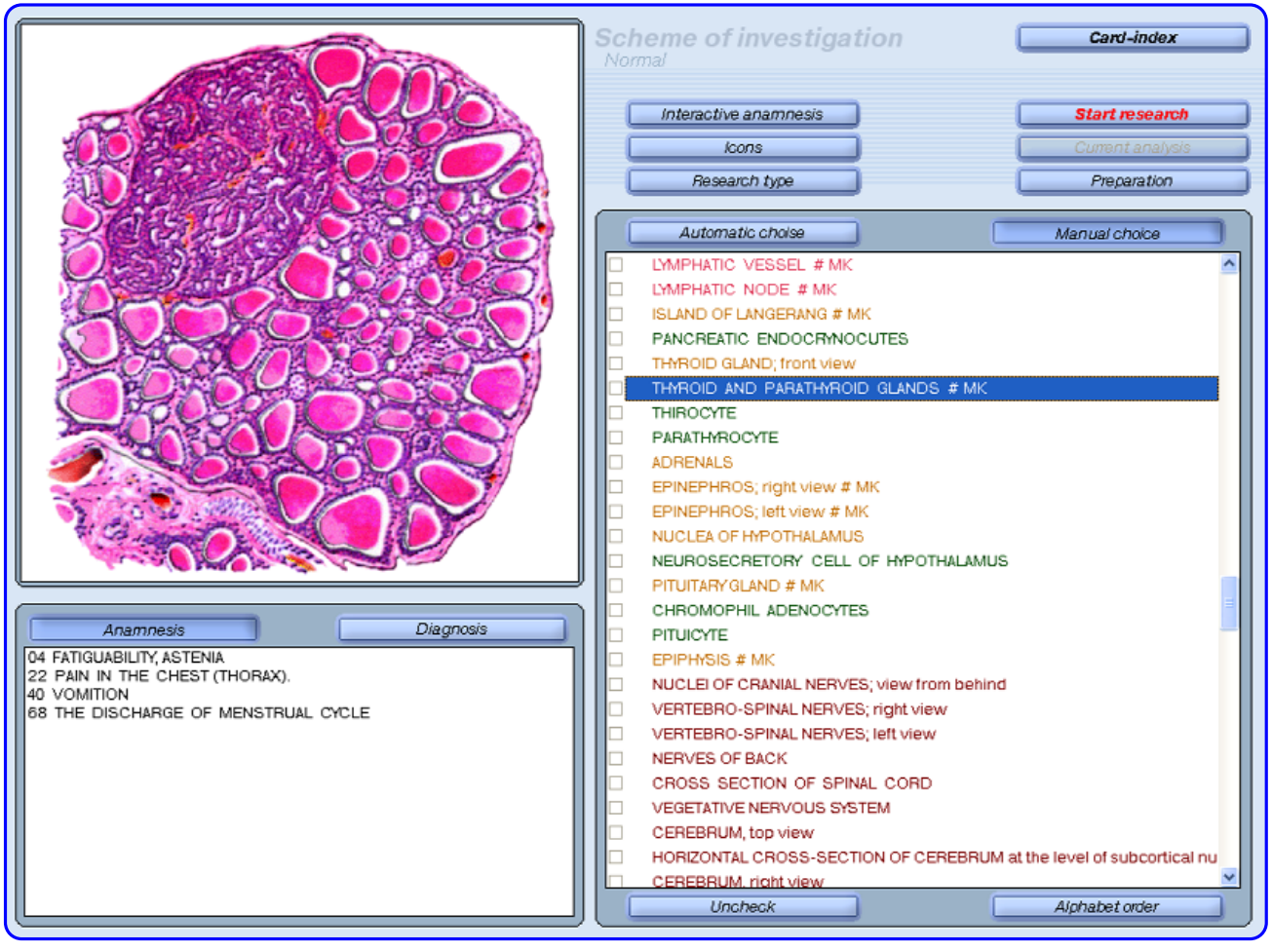
Pressing the key **'Graph'** under the picture of the organ under investigation displays a graph with frequency characteristics taken off this organ in the course of investigation. Press the button **'Picture'** to bring back the picture of the organ.





The main elements to control the form **'Patient's card'**:

'Current analysis' is the analysis of the results in the course of investigation with possible additional investigation of the patient with or without the apparatus connected (then the button 'Viewing the results').
'Comparative analysis' is a comparative analysis of the results of several investigations with the patient under dynamic observation.
'Investigation' - pressing this button displays the form 'Investigation scheme'.



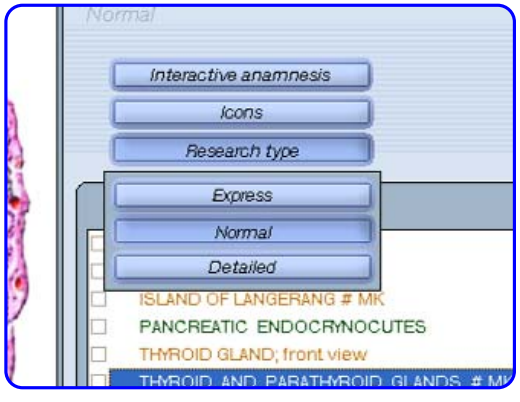
The button **'Program selections'** enables to automatically choose anatomical, histological, or cytological structures for more thorough, elaborate investigation depending on the pronounced changes found in full anatomical sections of the body.

The button **'Independent selection'** makes it possible for the doctor to independently single out or exclude organs on the list **'Investigation scheme'** by setting or removing checks left of the organ's name by pressing the left mouse button.
The button **'Cancel selection'** removes the investigation scheme for all the organs on the list.
The button **'Restore selection'** restores the investigation scheme for all the organs.

The button **'Alphabet'** arranges all the organs in alphabetical order.
The button **'Card file'** enables to exit to the card file.
The button **'Current analysis'** ensures current analysis of the investigation results.
It is required to enter complaints one can use the form 'Interactive anamnesis' which can be displayed by means of the corresponding button.
The button **'Preparation'** ensures automatic preparation making for the organs whose nidi have been evaluated. After pressing this button it is necessary to make the required settings in the form **'Making preparation'** and press the button **'Start making'**.

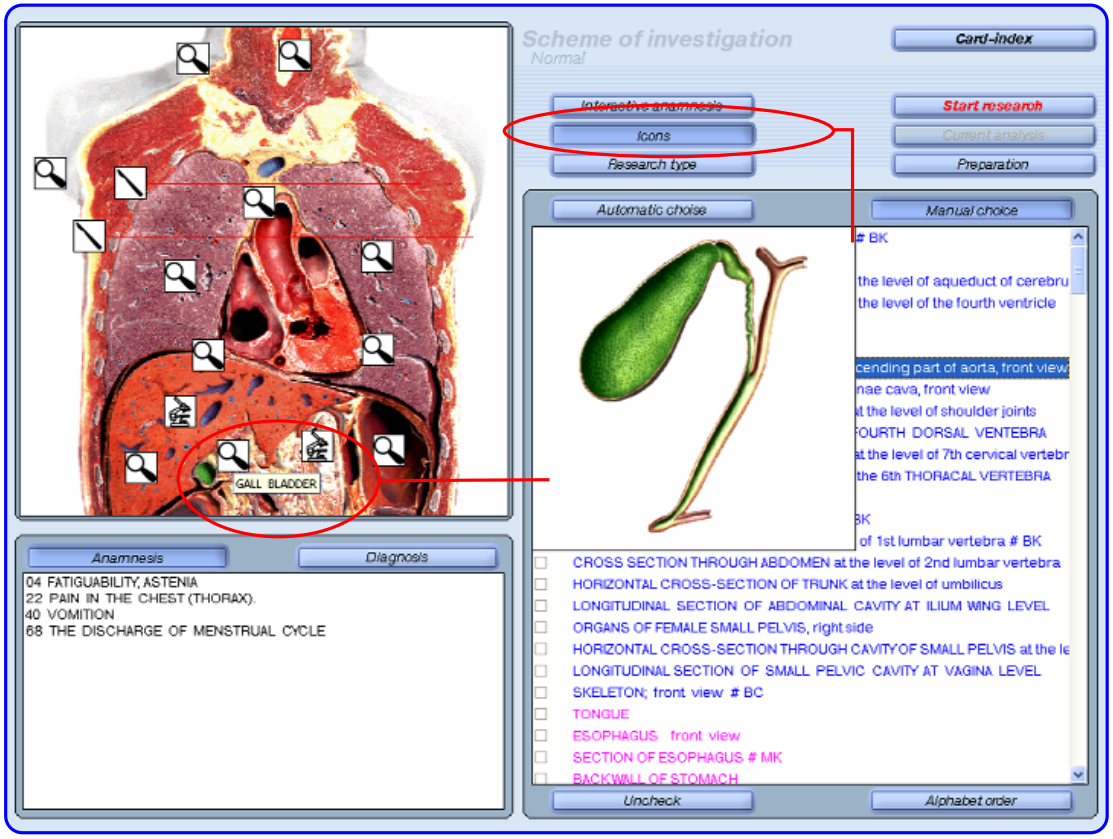
Type of investigation:

Express - enables to carry out investigations on full topographic sections without anatomical or histological particularization.
Standard - enables to study individual histological or genetic structures provided they have pathological changes.
Detail - enables to evaluate the structure of all body tissues on a histological, cytological or genetic level which may be important to high quality scientific research.

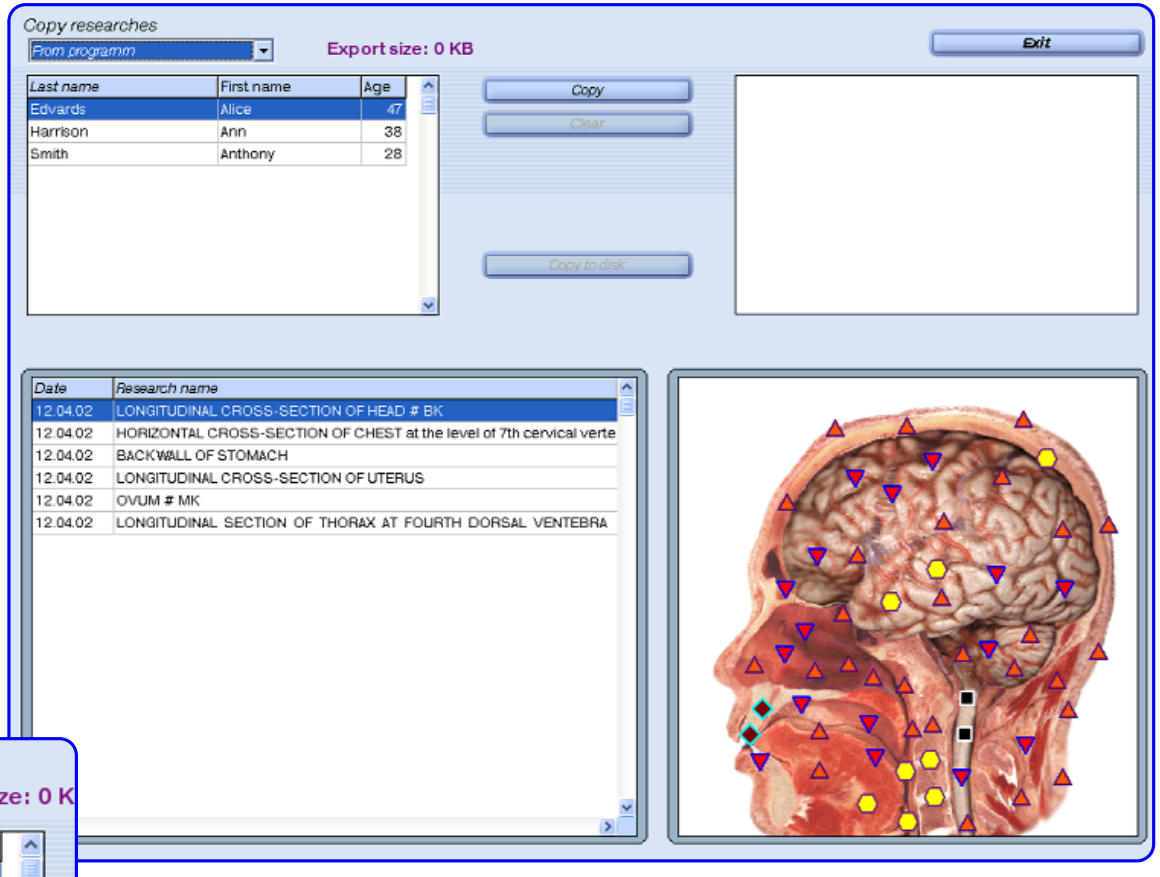


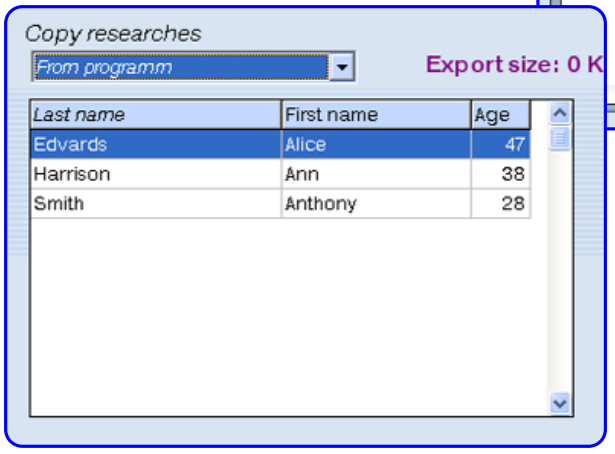
Investigation scheme

The mode **'Icons'** enables to enter the investigation of another organ (tissue, cell) anatomically or functionally related to the basic organ in the picture by pressing the corresponding icon without referring to the textual investigation scheme (or, if the organ has been investigated it enables to exit to the mode of current analysis).



Pressing the button **'Diskette record'** displays a form in the patient card file by means of which you can copy the investigation data about specific patients both on a diskette and from the diskette into the available patient directory.

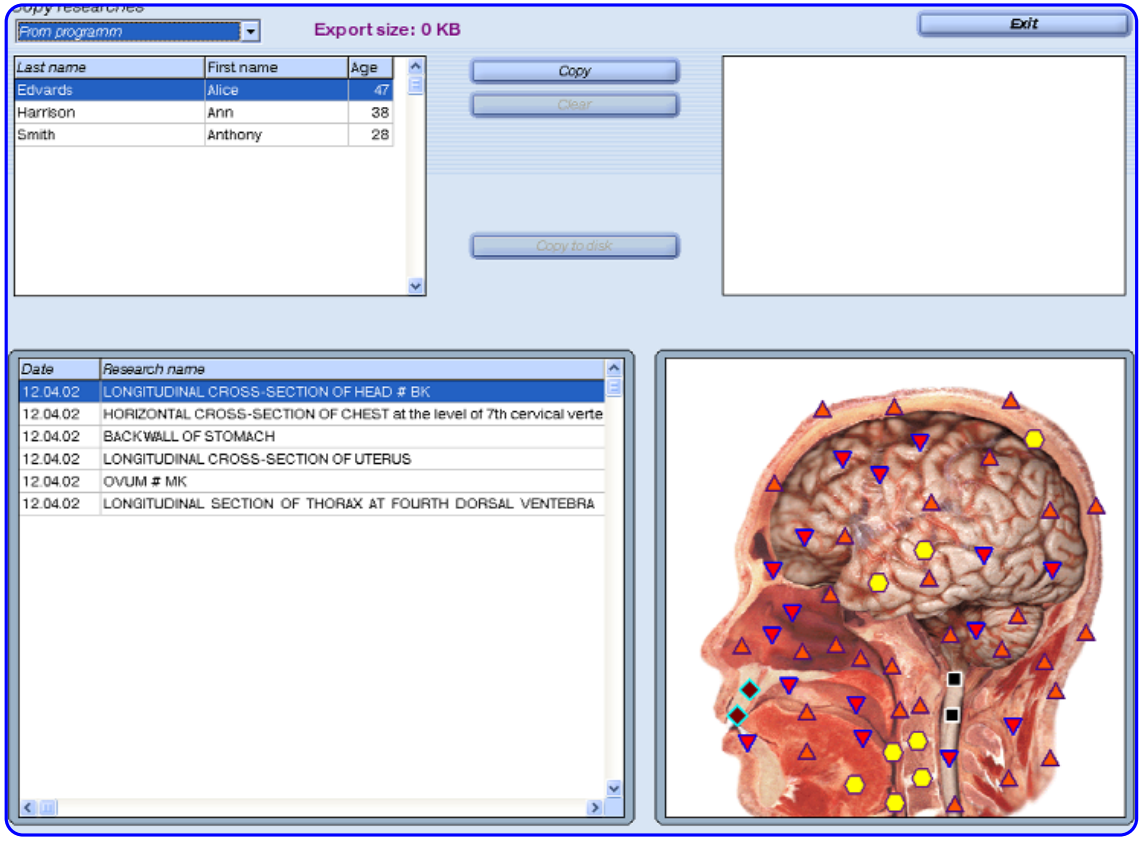




In the first place it is necessary to indicate the type of copying - **'From program'** or **'To program'**.

'From program' - copying the results of investigation of specific patients on a diskette.

Diskette record



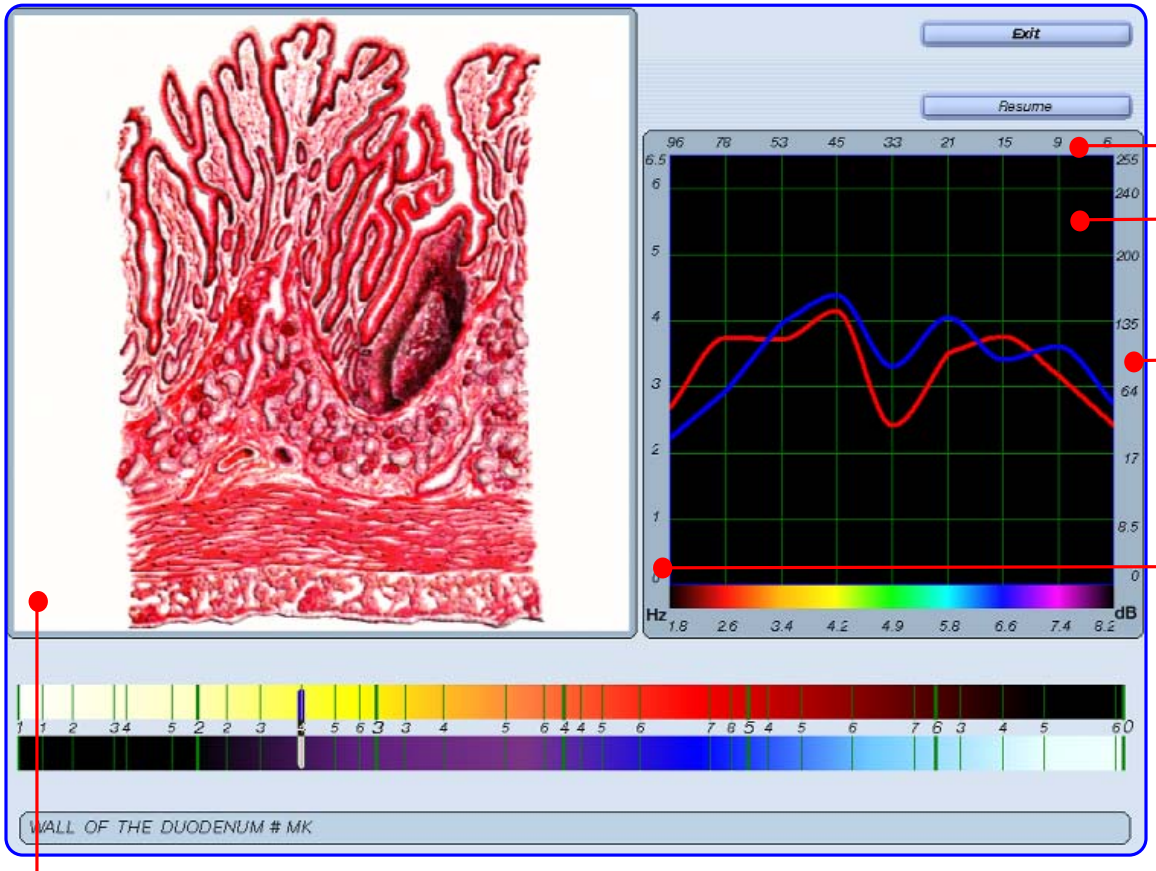
Press the button **'Copy'** and the investigations will be prepared for copying.

To start making a diskette copy insert the diskette into the disk drive and press the button **'Copy on disk'** or indicate where to copy.

The button **'Clear'** removes all the investigations from prepared list.

'Exit' - exit from the mode of copying.

'To program' - copying the investigation data from the diskette into the computer patient directory. When switching to this mode it is necessary to indicate the source of data (diskette, disk), then in the right part of the form there will be displayed a list of patients and their investigations accessible to be copied into the computer. Pressing the button **'Copy'** enters the diskette contents into the program.



Scale of the pulse ratio of the measured signal in percentage

Graph of distribution of the amplitude of the measured signal in standard frequencies 1.8 - 8.2 Hz

Relative scale of the noise level in the system in decibels.

Representative scale of the effective signal/noise ratio.

There is a representation of Fleindler's logarithmic polychrome scale in the lower part of the screen.

Pulsating picture of the organ.

The button **'Interrupt/Resume'** interrupts the investigation. When pressed it becomes the button **'Resume'** which should be released to resume automatic investigation. **'Back'** ensures transfer to the **'Investigation scheme'**.

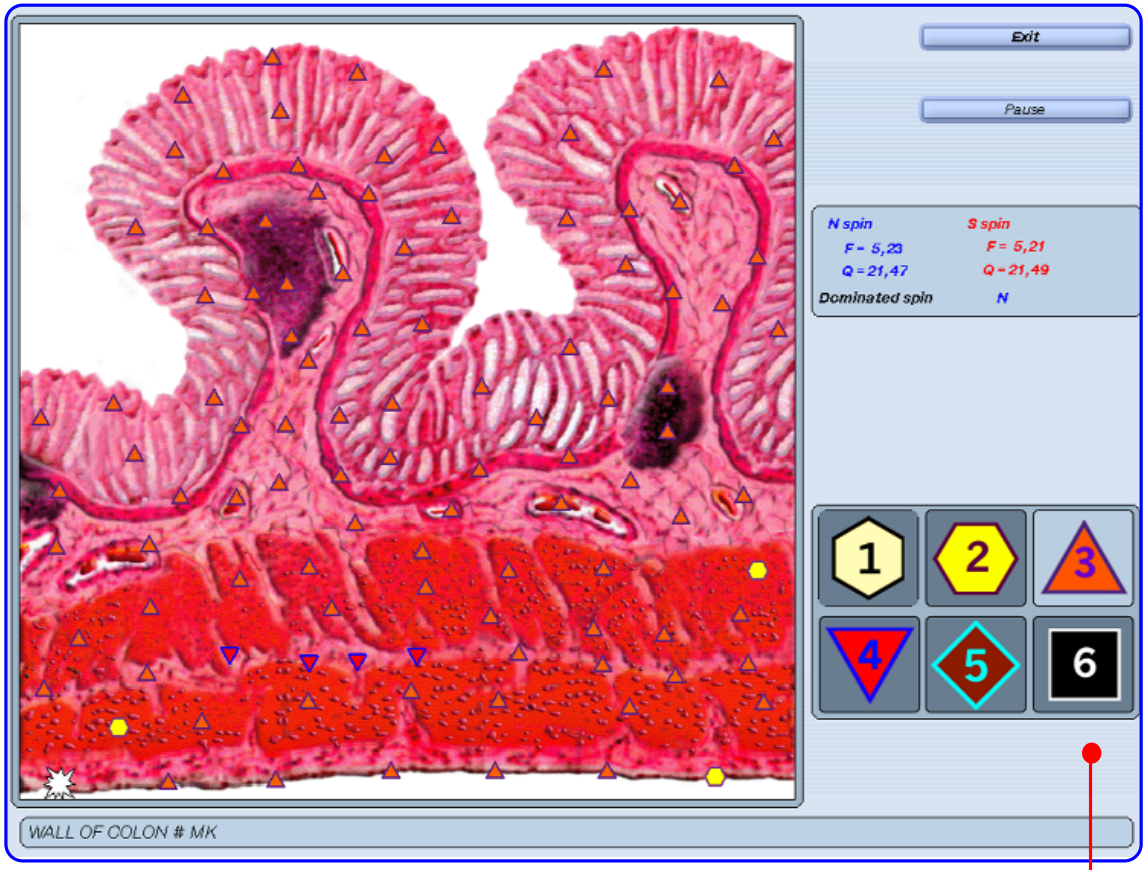
In the mode **'Determination of the resonance frequency of nidus modulation'** there is an opportunity to evaluate the spectral characteristics of the pathology nidus; all the main buttons are analogous to the form of determination of the resonance frequency of nidus modulation.

Diagnosis

The mode **'diagnosis'** carried out the evaluation of the pronouncedness of a pathological process in control points located on the organ in a standard pattern. The results are evaluated according to Fleindler's six-point polychrome scale with the buttons located in the lower right corner of the screen.

The button **'Interrupt/Resume'** enables to make pause in the investigations.

The button **'Exit'** ensures exit to the mode **'Investigation scheme'**.

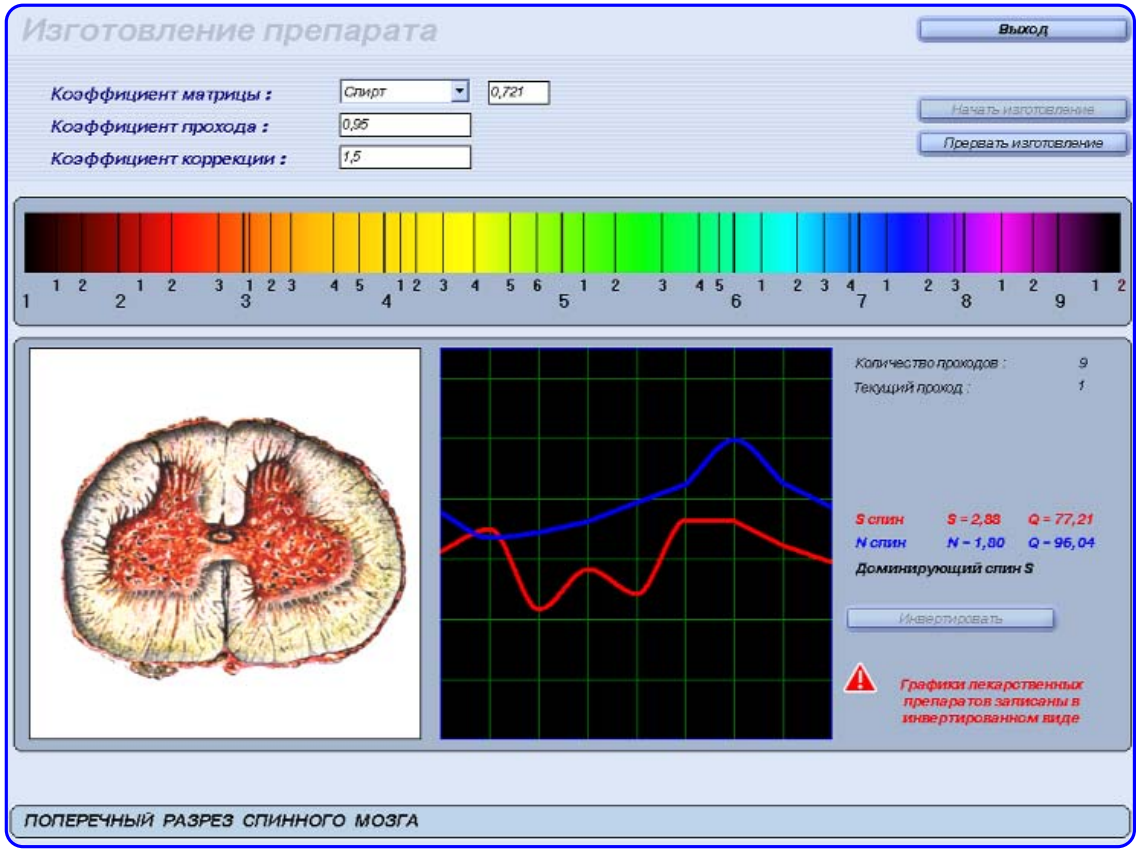


Scale point evaluation of the NLS-analysis results:

1. Level of latent functional activity.
2. Level of optimum regulation.
3. Shift of characteristics toward a higher level, stress state of regulatory systems.
4. Asthenization of regulatory mechanisms.
5. Compensated disturbances of adaptation mechanisms.
6. Decompensation of adaptation mechanisms, pronounced pathological conditions.

One should bear in mind that the suggested point evaluation largely characterized the dynamics of increase or decrease in adaptation reserves; even stable pathological states without pronounced dynamic changes are poorly recorded by this scale.

Making preparation



Natural frequencies taken from a pathological nidus are converted into these opposite in polarity and identical in form and as converted amplified information they are recorded on a matrix - water, ethyl alcohol, sugar or paraffin.

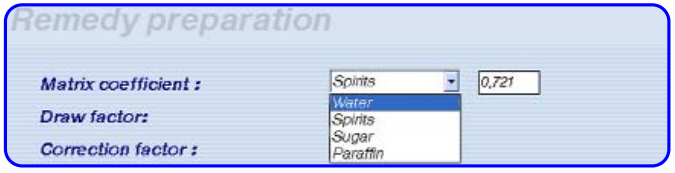
Water for this purpose is advised to be used to cure acute processes. The efficiency of the preparations recorded on water keeps within 2-3 weeks, then they lose their efficiency.

Alcohol serves to treat acute or chronic processes. Also, alcoholic solutions of some medicinal herbs like Leonurus, Crataegus, Inonotus obliquus, Eleutherococcus, Leuzea et al. can be recommended for treating chronic processes which enables to prolong the effect of remedies. The efficiency of the preparations made on alcohol reaches 2-3 months, the efficiency of those made on alcoholic solutions keeps for 4-6 months.

It is possible to treat chronic disorders using preparations recorded on lactose, in this case the preparation can remain effective for 6-9 months, however one should bear in mind that lactose used to make a preparation is supposed to be moistened with alcohol or water.

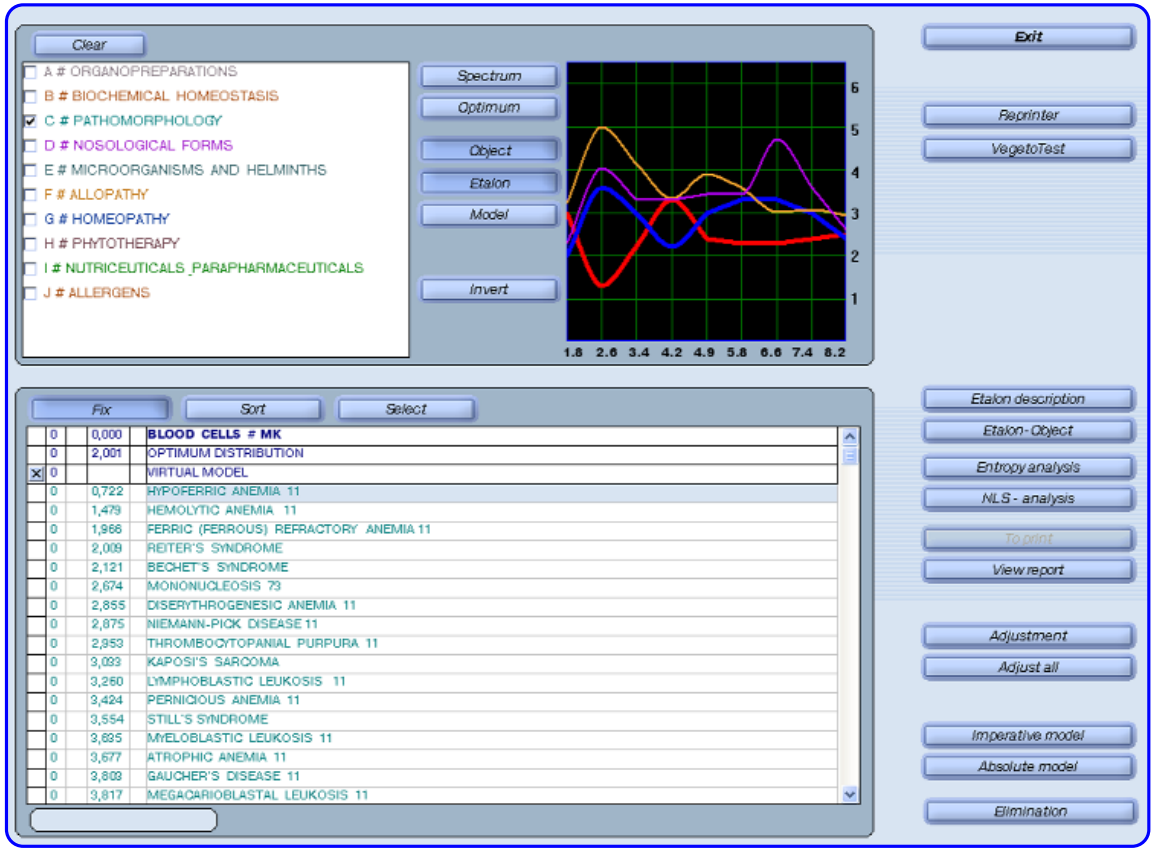
In treating acute processes one takes 4 to 8 drops or 'peas' at a time, three times a day.

For children under 14 the dose should be 2-3 drops less.

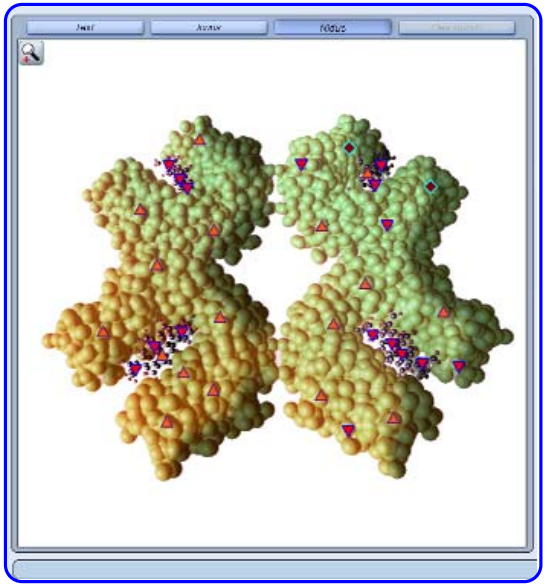


In treating subacute or chronic disorders one should take 2-4 drops (peas) once-twice a day. For children under 14 the dose should be 1-2 drops less.
Paraffin can be used to treat skin disorders and peripheral nervous system disturbance (radiculitis, neuralgia, lumbalgia) by applications.
In treating acute processes it is possible to record 2 to 4 preparations on one matrix at a time.
In treating subacute chronic processes the number of preparations can be increased to 6-8.
One should bear in mind that the more pronounced the voltage of the recorded preparations the fewer preparations can be recorded on one matrix.
The button 'Start making' starts making a preparation, while the button 'Stop' interrupts the procedure of making preparations.
The button 'Invert' enables to invert the output signal into the one of opposite polarity.
In this mode there is an opportunity to record preparations in succession from several pathology nidi existing in one organ (section of the body). Switching from one nidus to another is done by pressing the left mouse button with the arrow pointing to the nidus of interest.

Etalons

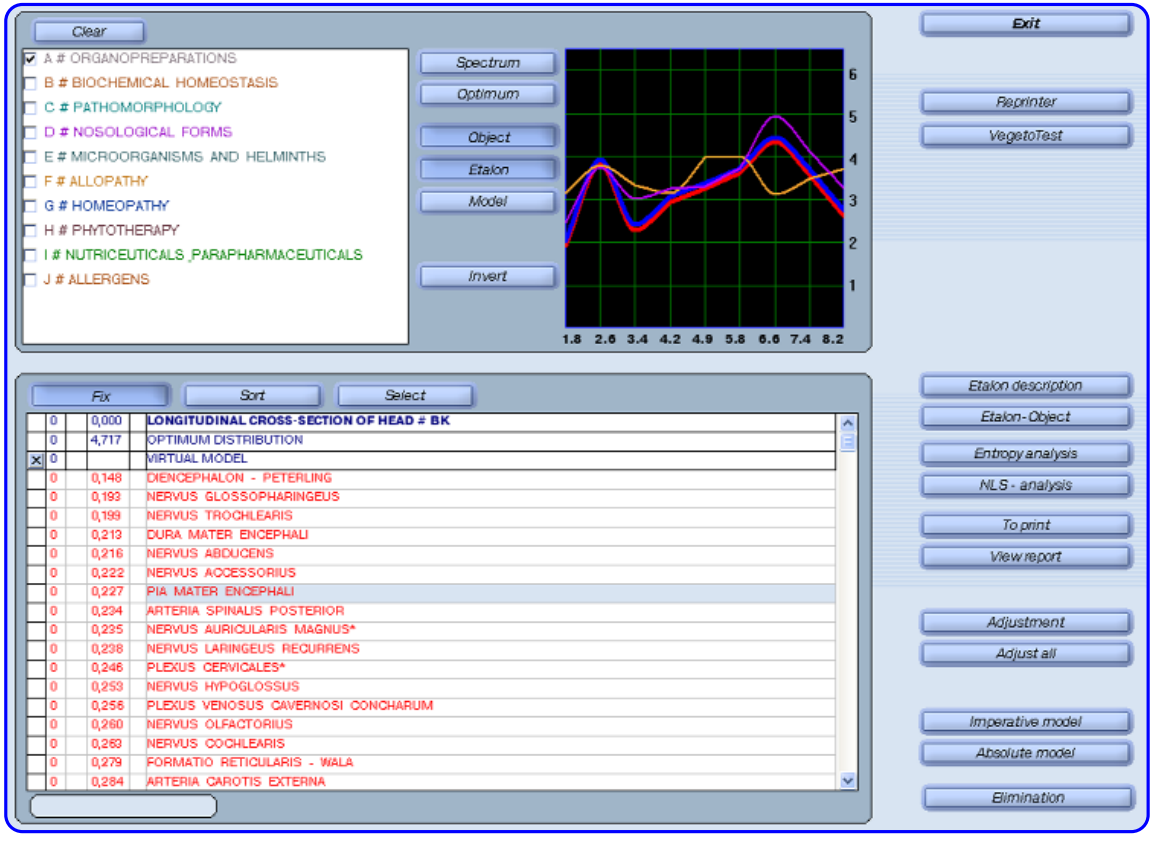


Every organ and every cell have specific oscillations distinctive of them only. The oscillations are stored in the computer memory and can be displayed on the screen as a certain graph which represents the conditions of the information exchange between an organ (tissue) and the environment. Every pathology also has an individual graph distinctive them only. The computer memory stores a large number of pathological processes with due regard for the extent of pronouncedness (healthy tissue, pathological tissue, infection agents) and reveal the closest pathological process or a tendency to its origination. By means of analysis you can trace the condition of the input signal, it is in red color (S) and the condition of the output signal (blue color (N)), they are displayed as graphs on the screen. By the forms of the graphs it is possible to determine to which of the reference (etalon) processes it appears to be closest and also check the extent of spectral similarity between the reference process and the graph plotted for the patient.

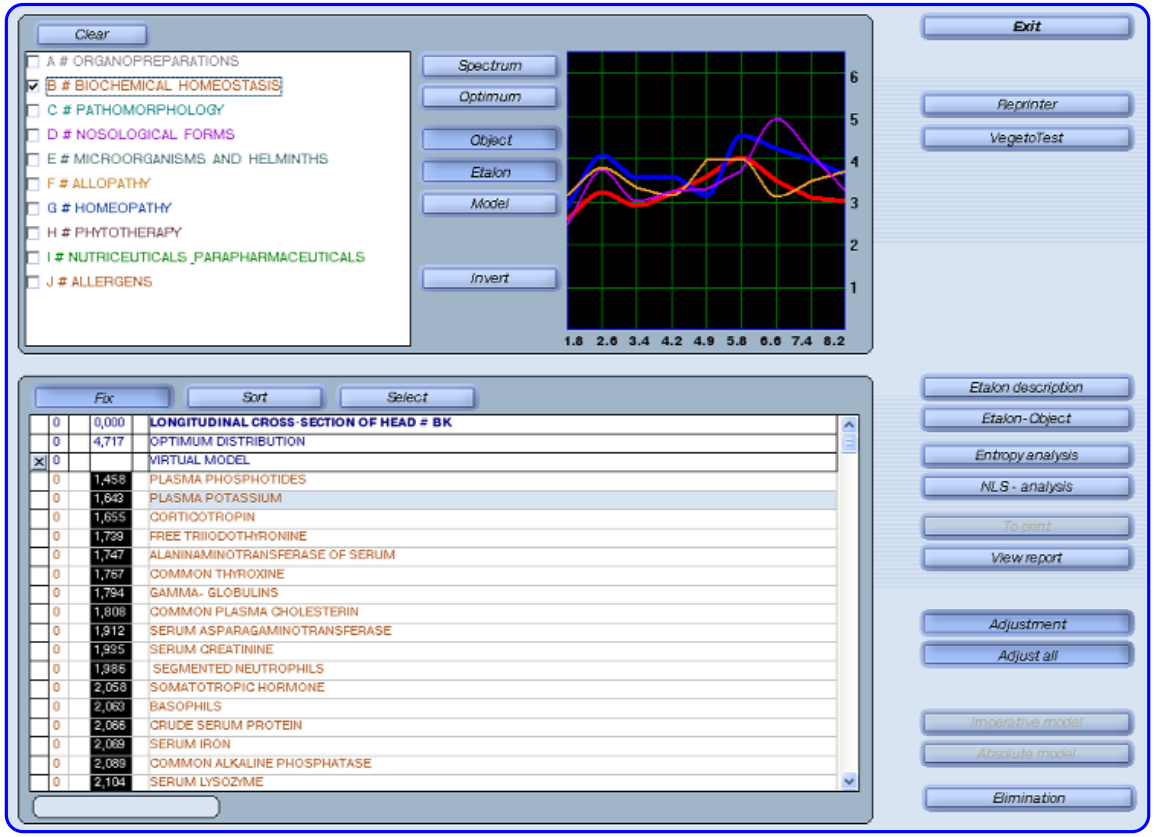


'List of groups' contains a list of etalon groups.

ORGANOPREPARATIONS contains etalons (standards) of spectral characteristics of healthy body tissues.
On the list of etalons below the etalons are arranged according to decreasing spectrum similarity to the object under investigation. Healthy tissue actually does not have dissociation between the input and output signals (the red and blue graphs respectively). The less the difference between the organopreparation and the object the more intact the tissue is in the body under investigation, the more the difference, the more damaged the tissue is.



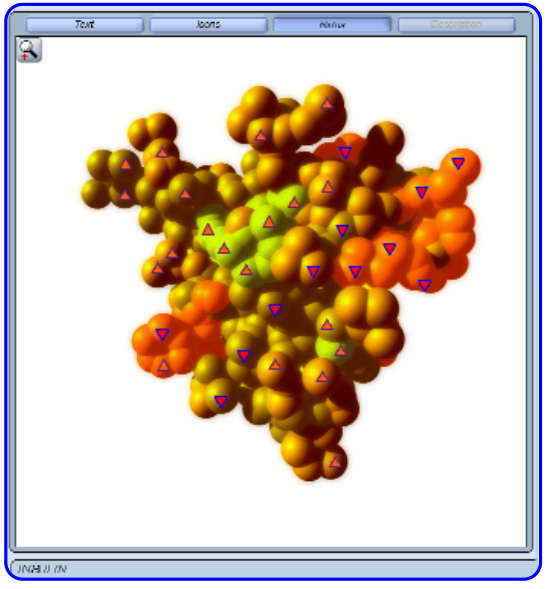
BIOCHEMICAL HOMEOSTASIS



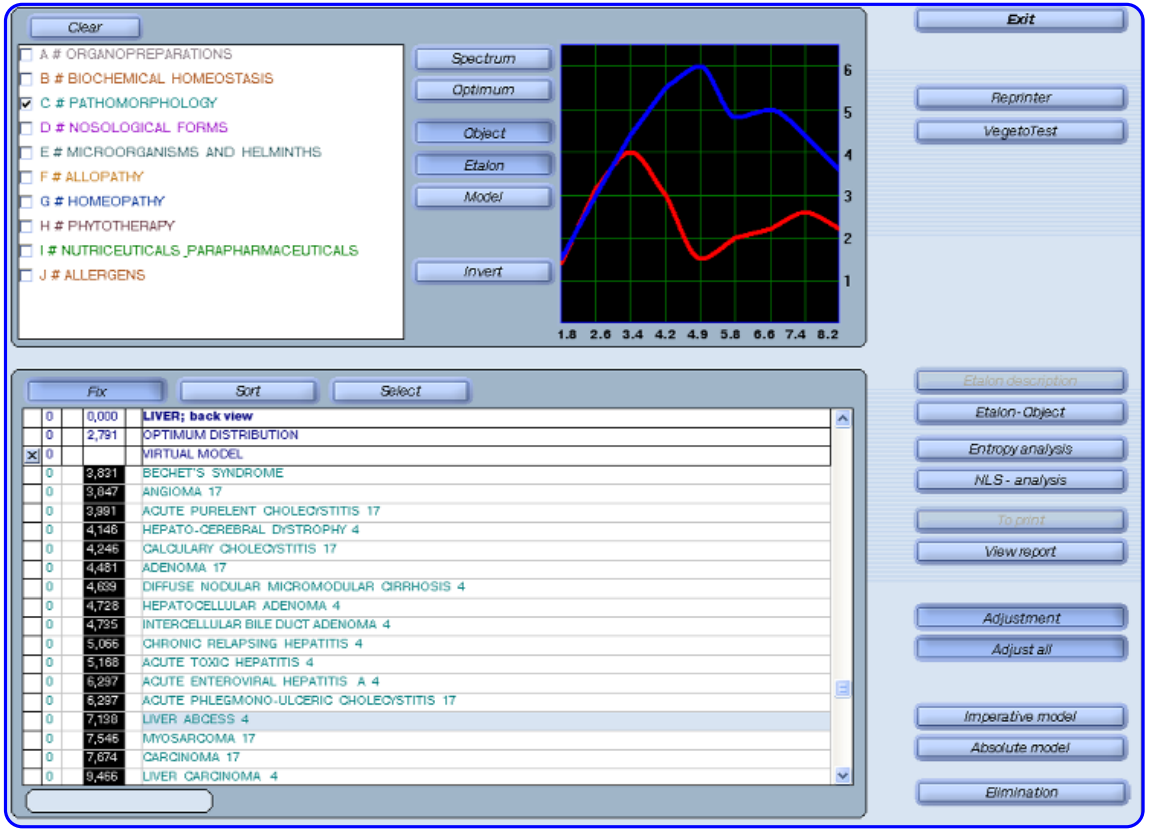
Enables to make a qualitative evaluation of the main biochemical factors through wave functions of body tissue. The assessment of biochemical homeostasis is made in the NLS-analysis duty.

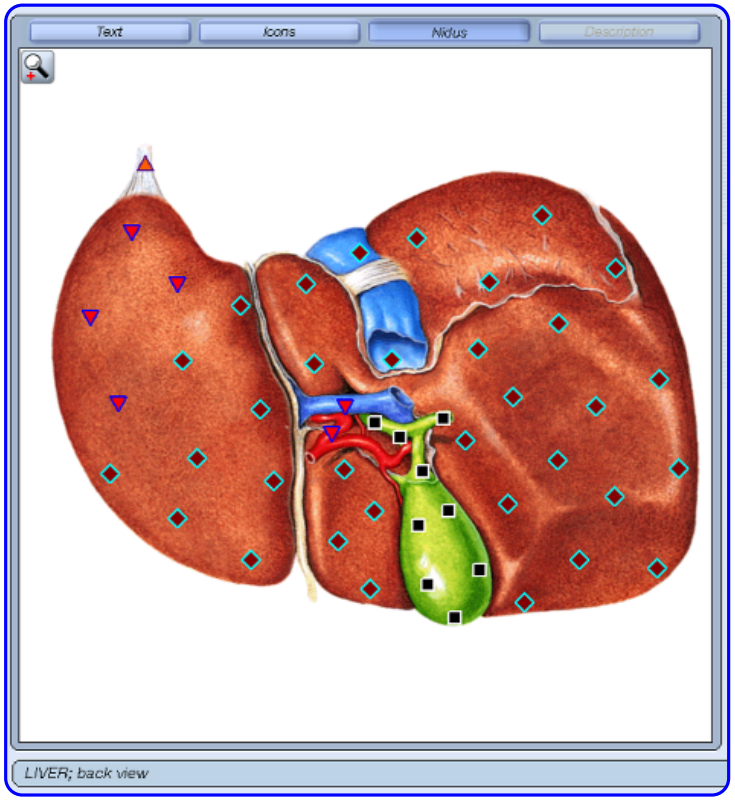
It is necessary to take into consideration that the lowest values of ferment (hormone) concentration within the normal bounds correspond to 2 in the graph, the highest values within the normal bounds correspond to 6. The values of the factors equal to3, 4 or 5 correspond to the mode of the factor, and the extreme values 1 and 7 characterize biochemical factors beyond the physiological norms, lower and higher respectively.

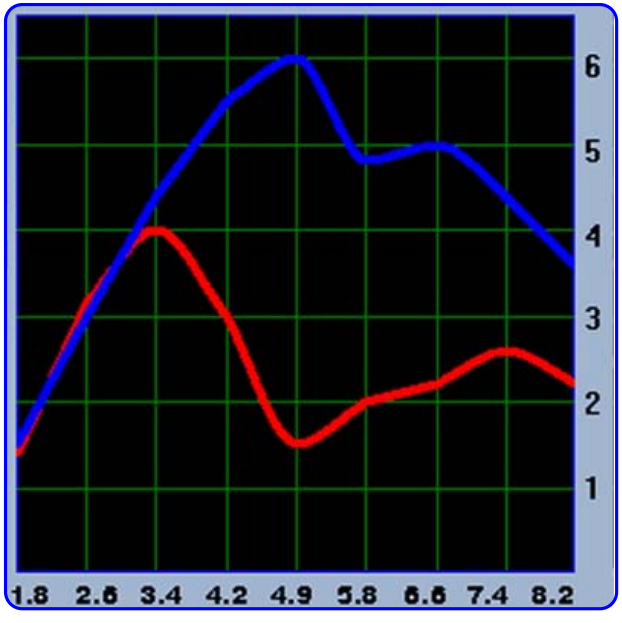
The results of computer biochemical analysis will be correct only in the case of observing the standard rules for making biochemical analysis in the clinic using conventional methods.



Here one can find a list of etalons of pathological processes. Recorded in this section are major pathomorphological conditions characteristic of certain body tissues. Every pathological process has a kind of graph distinctive of them only.

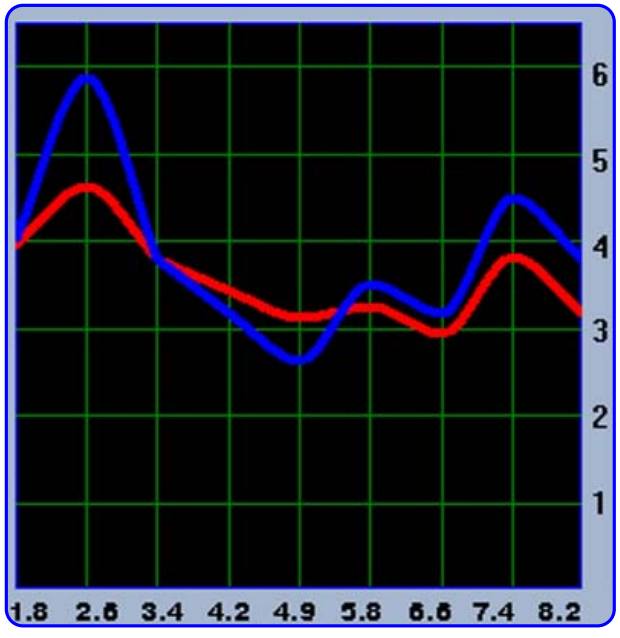




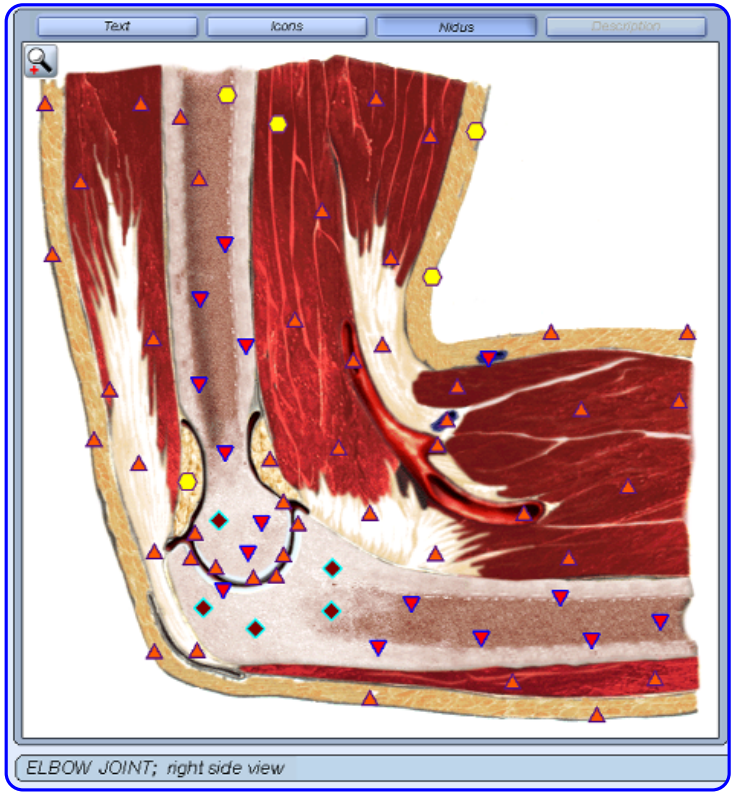


Liver abscess

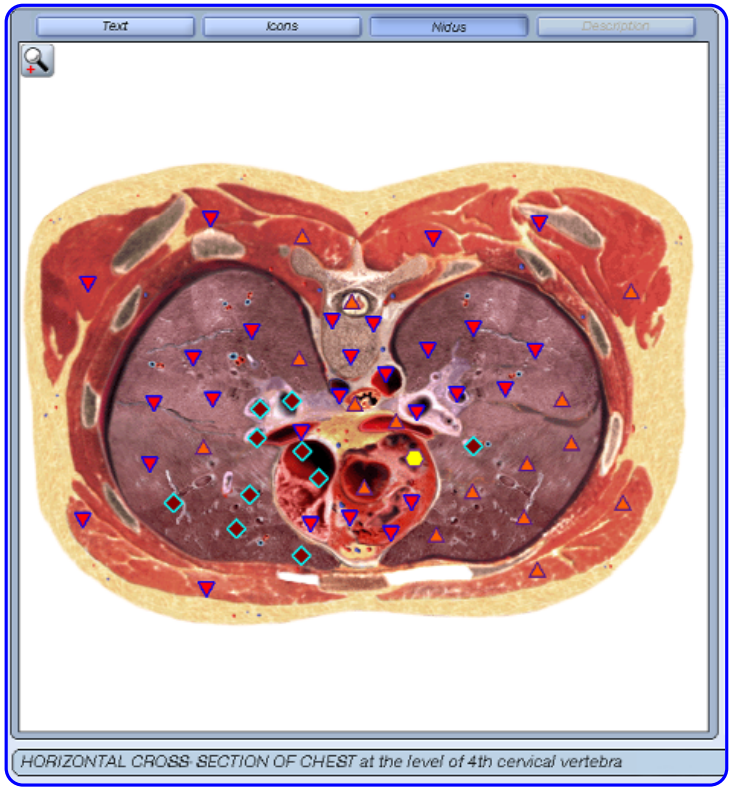
Thus, acute inflammatory processes have high amplitude sawtooth waveform graph with a considerable dissociation between the input and output signals. The graph isoline is in the range of 2-3 scale divisions.

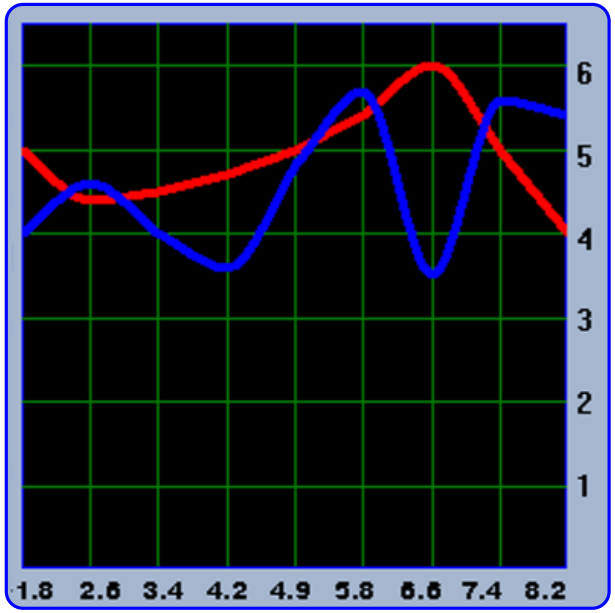


Pyrophosphate arthorathy



With subacute processes the graph voltage decreases, the graphs become level and the isoline reaches 3-4 scale divisions high.

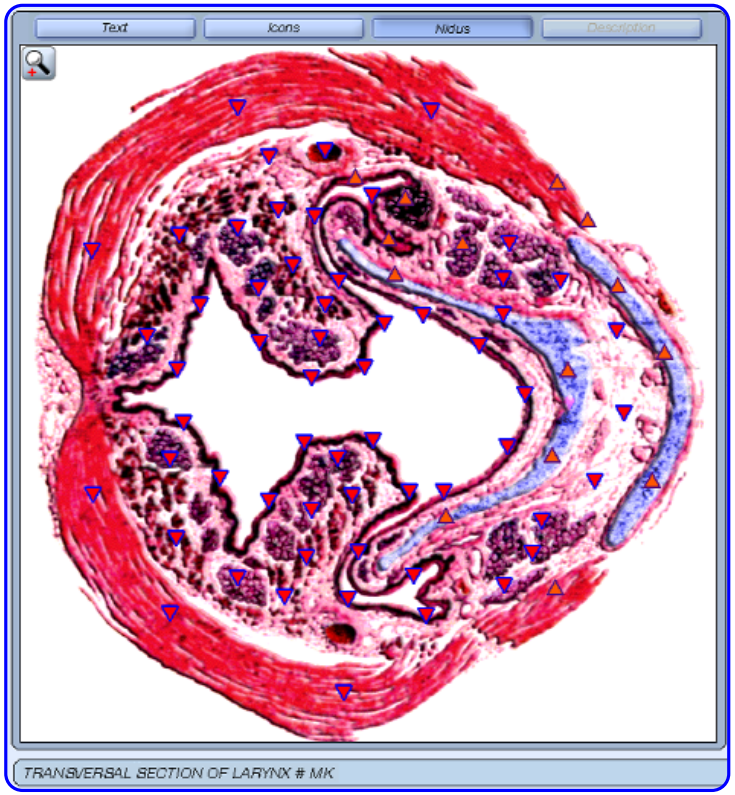




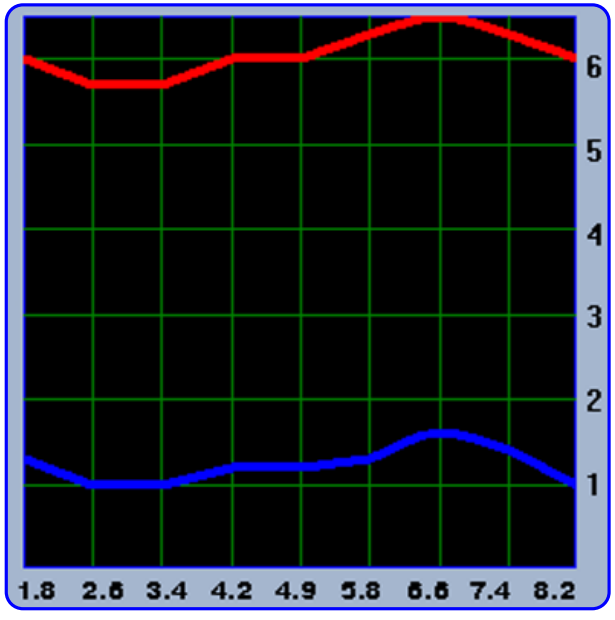
Chronyc interstitial pneumonia

With chronic processes the voltage decreases still more, the graphs take on a smoother shape and the isoline reaches the value 4-5.

Larynx adenoma

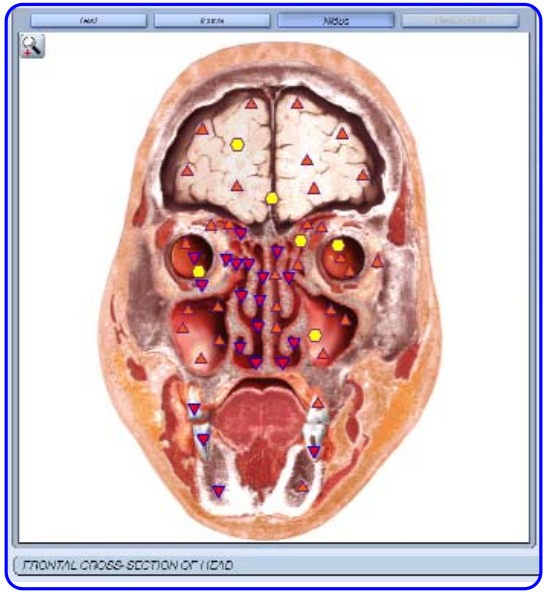


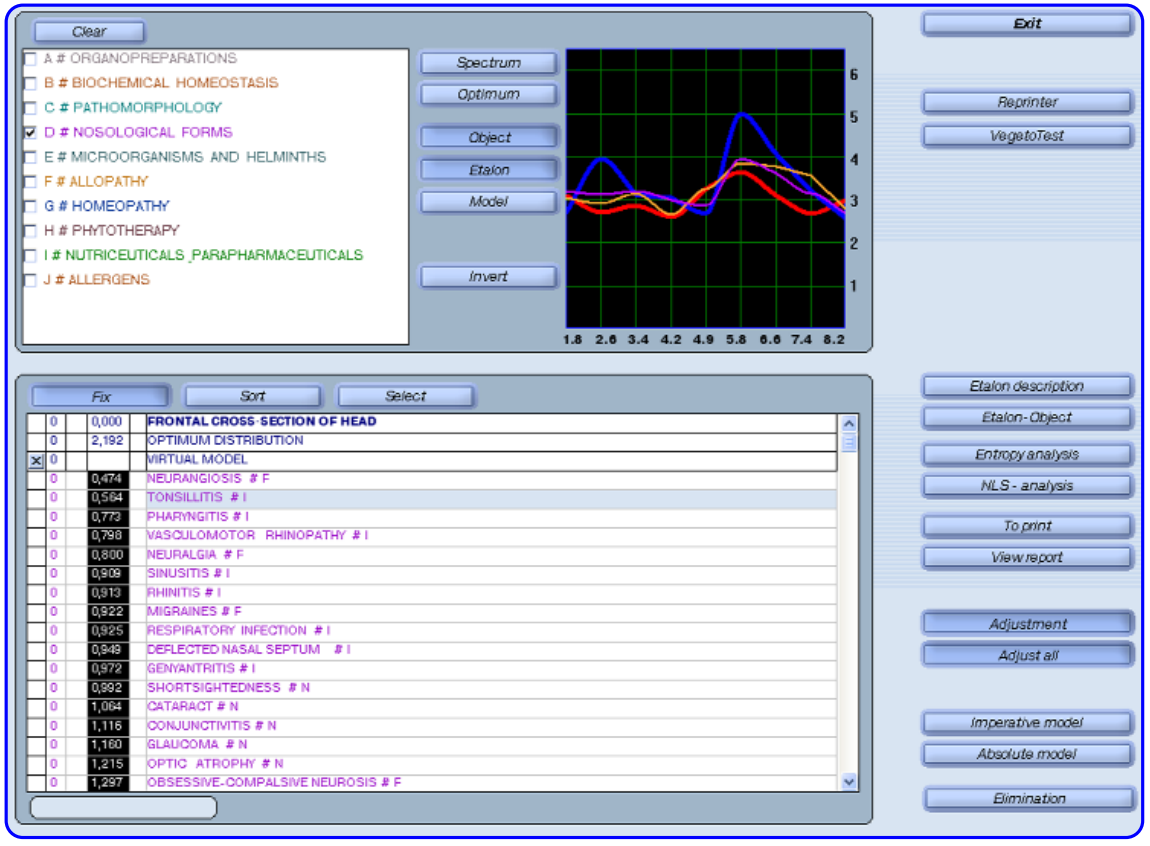
Benign tumors are characterized by a high isoline in the graph (4-5 divisions) and a tendency towards a growing amplitude of the input signal as compared to the output one.



Hypophysys adenocacinoma

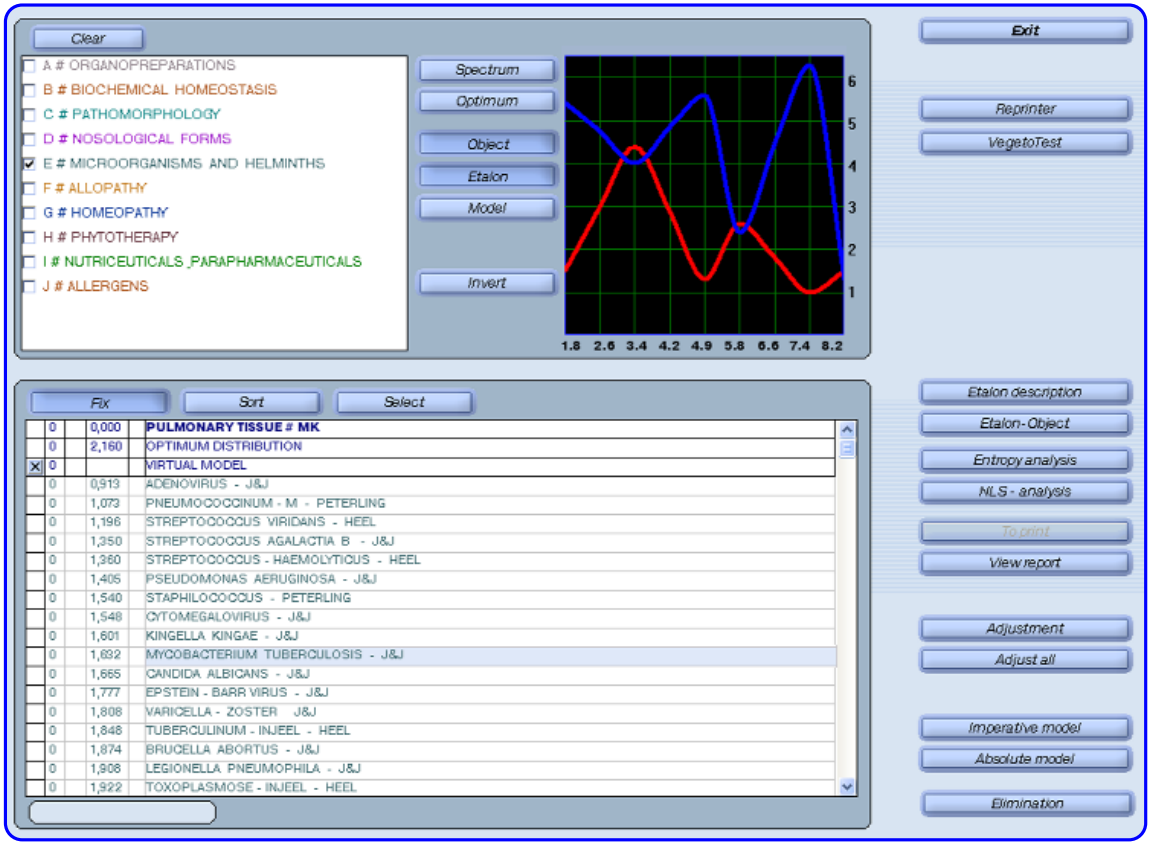
Malignization processes are characterized by practically level graphs with minor peaks in the area of the natural frequency of an organ and a low amplitude (1-1.5) of the output signal along with a high amplitude (5-6) of the input one.

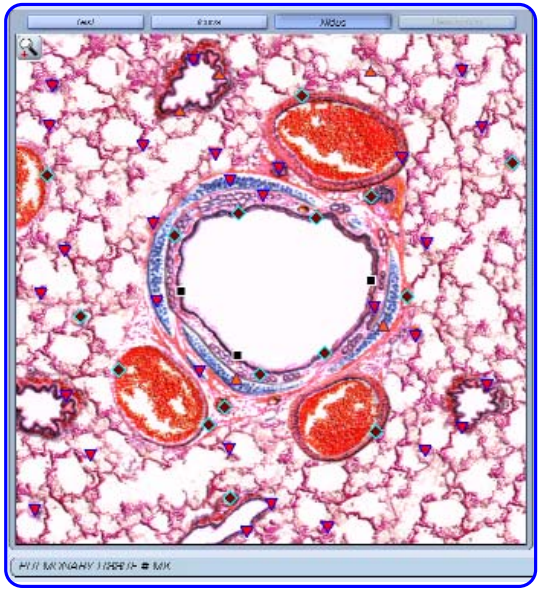




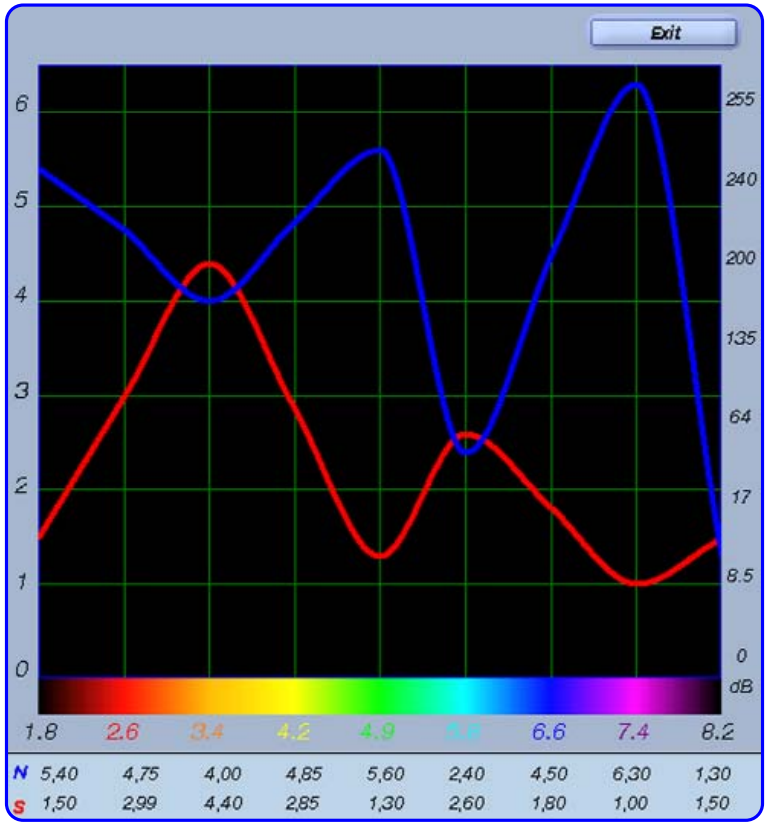
Recorded in this section are major nosological processes which can comprise wave characteristics of a pathological change in the tissues, areas of intact healthy tissues as well as infection agents or antigens present in the nidus.

MICROORGANISMS AND HELMINTHS





Recorded in this section are major characteristics of the infection agents ob bacteria, viruses, mycoplasma ricketsias, fungi and helminthes. As a rule, they have high peaks of dissociation within the frequency range that represents natural frequencies of the tissue toward which they have tropism.



For instance, Koch's bacillus has a high dissociation in frequency natural frequency of lung tissue - 7.4 Hz, urogenital system frequency - 4.9 Hz, and bone tissue frequency - 1.8 Hz. These tissues are known to be largely affected by tuberculosis mycobacteria.

Pulmonary tuberculosis

Recorded in the group **ALLOPATHY** are wave characteristics of principal chemical (synthetic) medicinal preparations used in conventional medicine.

HOMEOPATHY
Recorded in this group are wave characteristics of homeopathic preparations.

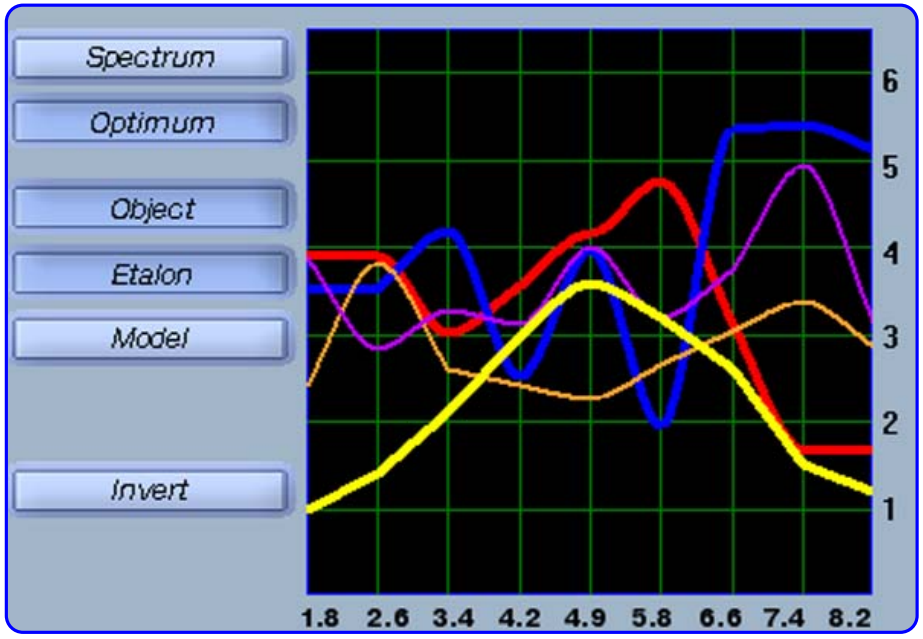
PHITOTHERAPY
Recorded in this group are wave characteristics of medicinal plants growing in Midwest Russia.

NUTRICEUTICALS
Recorded in this group are wave characteristics of biologically active supplements (BAS) produced by main Russian and foreign companies whose business is nutritional supplements.

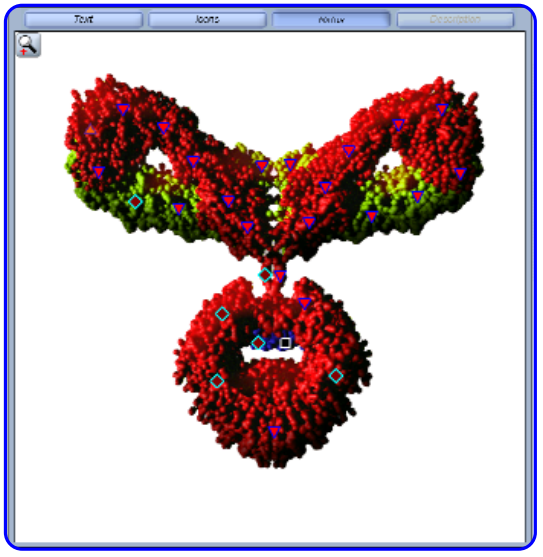
ALLERGENS
Recorded in this group are wave characteristics of food, domestic, vegetable and industrial allergens.

Natural frequencies of the tissues lie within the following standard frequency band:

1.8 osseous system;
2.6 coarse connective tissue, joints, cardiac valves;
2.6 - 3.4 loose connective tissue, striated musculature, cardiac muscle;
3.4 unstrained musculature;
4.2 tessellated epithelium of the digestive tract;
4.9 stratifies squamous and columnar epithelia. Parenchymatous liver tissue and tissue of the biliary tract;
4.9 - 5.8 kidney tissue epithelium and reproductive organs;
5.8 lymphoid ring of the pharynx, upper section of the respiratory tract, lymphatic system, spleen, ovaries, prostate;
6.6 peripheral nervous system, bronchus epithelium, adrenals, thyroid;
7.4 central sections of sensory analyzers except the optic one, subcortical structures of the brain, pons; cerebellum, limbic system and lungs parenchyma;
8.2 Retina, optic nerve, cerebral cortex.



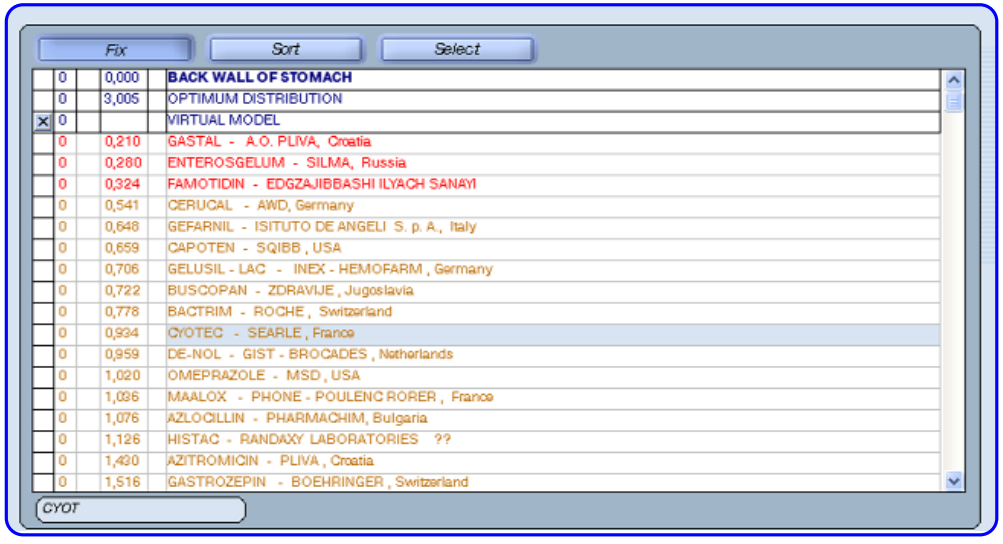
Next to the graph there are the following control elements:
'Object' - displays a graph of the examined biological object, organ or tissue plotted in the course of investigation.
'Etalon' - represents a graph of the chosen reference process.
'Spectrum' - pressing this button displays an enlarged graph.
'Optimum' - a yellow graph shows normal (Gaussian) distribution of the signal in standard frequency.
'Model' - shows a graph of the virtual model.
'Invert' - the button 'Invert' enables to invert the graph into the opposite polarity.



The button **'Clear'** which is above the list of etalons shuts off the opportunity of dispersion analysis simultaneously for all groups of etalons.

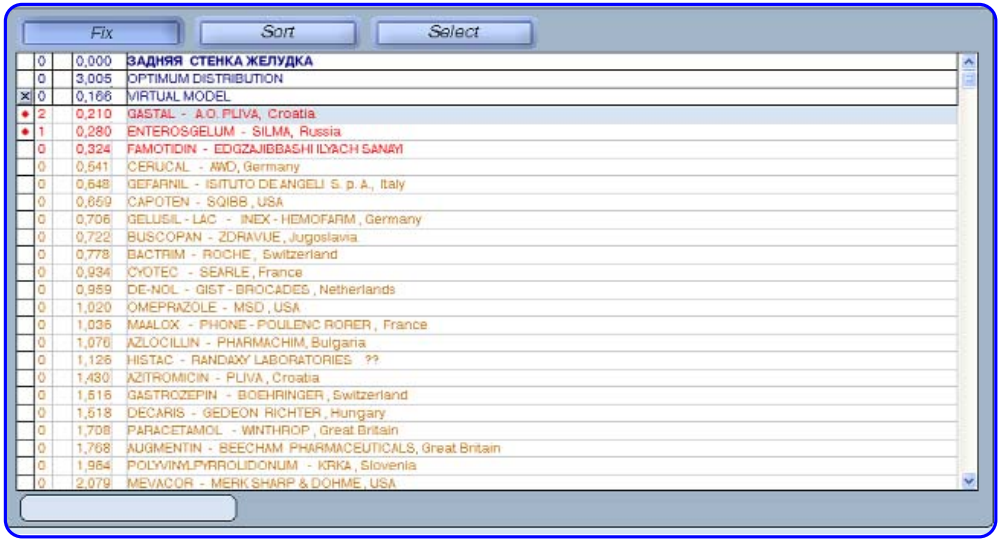
Etalons

This program offers a unique opportunity to make a comparison of all stored preparations by the extent of their spectral similarity to a pathology nidus. The marked area represents the values of spectral difference (D) between these etalons and the object. If the value is less than 0.425 it means that the spectral similarity to the object under investigation is over 95%, with this etalon being marked red. It is clinically significant, e.g. there are statistically true manifestations of the processes, if this value is within 0.750 (the similarity to the object under investigation is not less than 65%).


Fix
Sort
Select
0 0,000 BACK WALL OF STOMACH
0 3,005 OPTIMUM DISTRIBUTION
0 VIRTUAL MODEL
0 0,210 GASTAL - A.O. PLIVA, Croatia
0 0,280 ENTEROSGELUM - SILMA, Russia
0 0,324 FAMOTIDIN - EDGZAJIBBASHI ILYACH SANAYI
0 0,541 CERUGAL - AWD, Germany
0 0,648 GEFARNIL - ISITUTO DE ANGELI S. p. A., Italy
0 0,659 CAPOTEN - SQIBB , USA
0 0,706 GELUSIL - LAC - INEX - HEMOFARM , Germany
0 0,722 BUSCOPAN - ZDRAVIJE , Jugoslavia
0 0,778 BACTRIM - ROCHE , Switzerland
0 0,934 CYOTEC - SEARLE , France
0 0,959 DE-NOL - GIST - BROCADES , Netherlands
0 1,020 OMEPRAZOLE - MSD , USA
0 1,036 MAALOX - PHONE - POULENC RORER , France
0 1,076 AZLOCILLIN - PHARMACHIM, Bulgaria
0 1,126 HISTAC - RANDAXY LABORATORIES ??
0 1,430 AZITROMICIN - PLIVA , Croatia
0 1,516 GASTROZEPIN - BOEHRINGER , Switzerland
CYOT

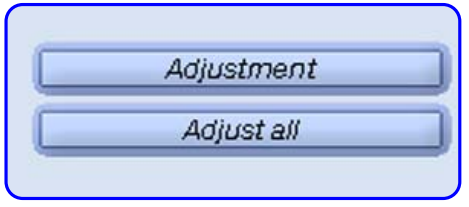
Mathematical addition of spectral characteristics of information preparations gives an opportunity to obtain the best combination of remedies by an approximation to the spectral characteristics of pathological process and thus pick out the most efficient remedy. The possibility of combining frequencies of pathological agents gives an opportunity to experimentally make virtual models of various pathological processes. It is essential to make virtual models in picking out groups of remedies that produce the best results when combined.

The addition of etalons with a view to making a virtual model is done by pressing the left mouse button on the first column of the list of etalons against the chosen etalon. The subtraction of an etalon from the virtual model is done by means of the right mouse button. Turning off the virtual modeling is done by pressing on the sign 'X' in the first column of the list of etalons against the virtual model.
If the spectral difference value (D) of any of the summed-up preparations and the object taken separately is much higher than that of the virtual model of their composition there is synergism of the preparations. If the value is lower there is antagonism in their interaction.


Fix
Sort
Select
0 0,000 ЗАДНЯЯ СТЕНКА ЖЕЛУДКА
0 3,005 OPTIMUM DISTRIBUTION
X 0 0,166 VIRTUAL MODEL
• 2 0,210 GASTAL - A.O. PLIVA, Croatia
• 1 0,280 ENTEROSGELUM - SILMA, Russia
0 0,324 FAMOTIDIN - EDGZAJIBBASHI ILYACH SANAYI
0 0,541 CERUCAL - AWD, Germany
0 0,648 GEFARNIL - ISITUTO DE ANGELI S. p. A., Italy
0 0,659 CAPOTEN - SQIBB, USA
0 0,706 GELUSIL - LAC - INEX - HEMOFARM, Germany
0 0,722 BUSCOPAN - ZDRAVUE, Jugoslavia
0 0,778 BACTRIM - ROCHE, Switzerland
0 0,934 CYOTEC - SEARLE, France
0 0,959 DE-NOL - GIST - BROCADES, Netherlands
0 1,020 OMEPRAZOLE - MSD, USA
0 1,035 MAALOX - PHONE - POULENC RORER, France
0 1,076 AZLOCILLIN - PHARMACHIM, Bulgaria
0 1,126 HISTAC - RANDAXY LABORATORIES ??
0 1,430 AZITROMICIN - PLIVA, Croatia
0 1,516 GASTROZEPIN - BOEHRINGER, Switzerland
0 1,518 DECARIS - GEDEON RICHTER, Hungary
0 1,708 PARACETAMOL - WINTHROP, Great Britain
0 1,768 AUGMENTIN - BEECHAM PHARMACEUTICALS, Great Britain
0 1,964 POLYVINYLPYRROLIDONUM - KRKA, Slovenia
0 2,079 MEVACOR - MERK SHARP & DOHME, USA

Control elements of the form 'Etalons'

The button **'Tuning'** - virtual activization of the pathological process.
The process may be in remission, yet of interest to us is the process in its acivization phase. Pressing this button causes tuning of the chosen reference process to the spectral characteristics of the object under investigation.
'Tune all' - pressing this button causes tuning of all reference processes stored in the etalons directory.

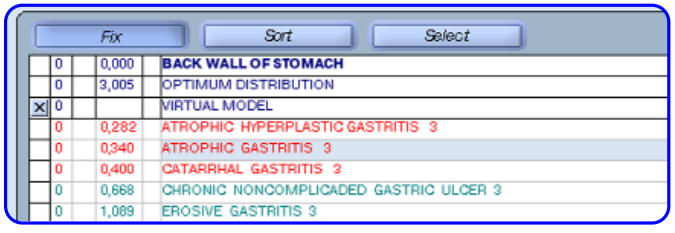


'VegetoTest' - the use of the mode of internal vegetative resonance test in which the preparation is picked out from the etalon directory.
'Reprinter' - enables to record any preparation from the etalon directory on a matrix (water, alcohol, sugar, paraffin).
'Etalon description' displays a detailed description of the chosen etalon.
'Entropy analysis' - carries out a 2-factor entropy analysis of the pathological process.
'NLS-analysis' - carries out a multifactorial entropy analysis of the pathological process (biochemical homeostasis of the system).
'Etalon-Object' - carries out a dispersion analysis with reference to an etalon chosen at random with the object functions assigned to it.
'To print' - indicates in the printout etalons with a high spectral similarity to the object under investigation.
'Epicrisis' - displays on the screen the list of etalons chosen for printing.

'Absolute model' - (is only represented in the version Metapathy - 3) a extremely optimized virtual model is built due to the development of an intricate program algorithm that enables to handle all kinds of etalon combinations.
'Auto model' - (is only represented in the version Metapathy - 3) is a function analogous to the 'Absolute model' except that one of the etalons (serving to check) chosen randomly is introduced into the calculations of the virtual model to evaluate its spectrum in the model building.
The sign ∞ for other etalons of the model indicates that the share of the control etalon in the model structure in minimized.

'Elimination' - (is only represented in the version Metapathy - 3) enables to make a multifactorial elimination analysis by excluding (eliminating) the frequencies of individual agents (generally of a bacterial or viral nature) from the spectrum of the biological object under investigation which enables to reveal the principal process (frequently of a blast nature) disguised by these agents.

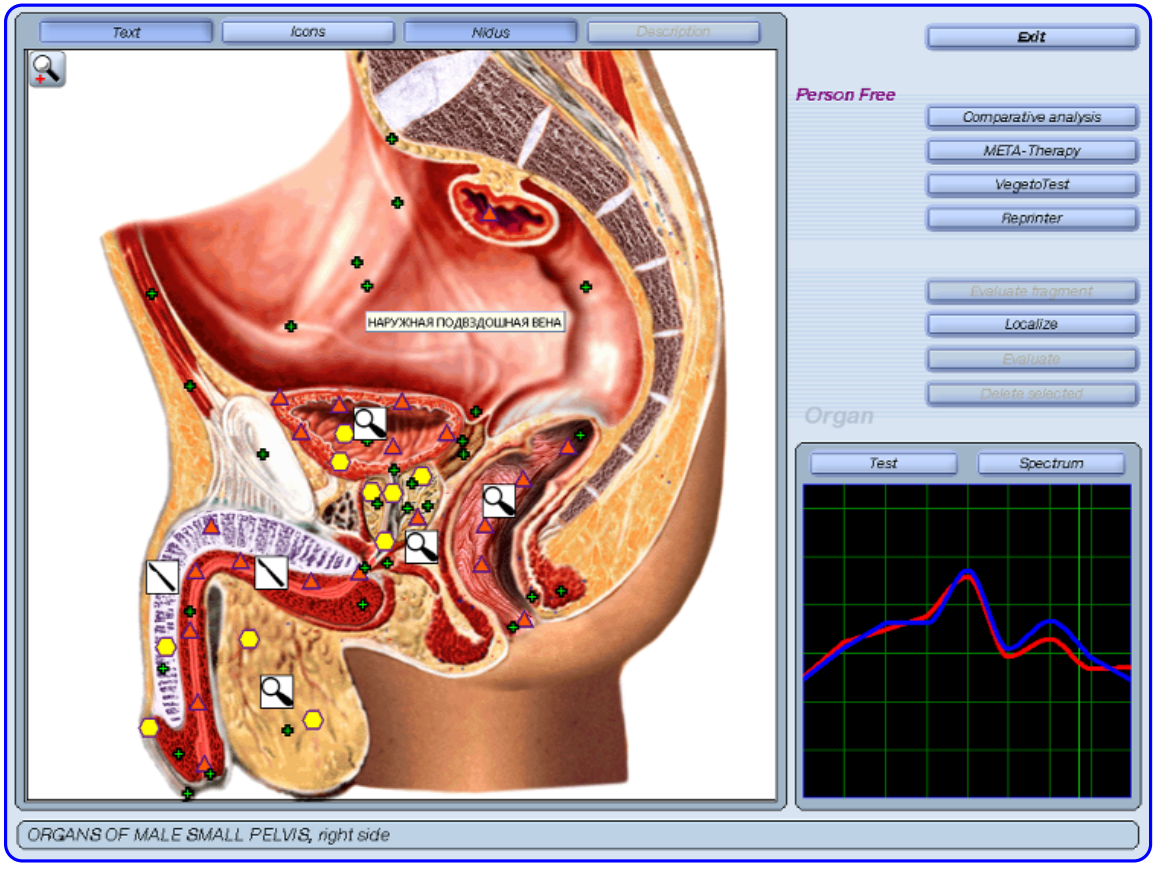
The buttons above the list of etalons:


Fix
Sort
Select
0 0,000 BACK WALL OF STOMACH
0 3,005 OPTIMUM DISTRIBUTION
0 VIRTUAL MODEL
0 0,282 ATROPHIC HYPERPLASTIC GASTRITIS 3
0 0,340 ATROPHIC GASTRITIS 3
0 0,400 CATARRHAL GASTRITIS 3
0 0,668 CHRONIC NONCOMPLICADED GASTRIC ULCER 3
0 1,089 EROSIVE GASTRITIS 3

'Fixation' - enables to fix three lines in the upper part of the list:
Name of biological object.
Optimum distribution.
Virtual model.

'Sort' - enables to sort etalons to arrange them in alphabetical order.
'Filter' - enables to single out a group of etalons with the similar last word in their names.
The line of search in the lower left corner, under the list of etalons enables to find the required etalon very quickly by introducing some of the first letters in its name.

Buttons above the picture of the Organ



'Text' - enables to receive information about separate fragments in the picture. To do this it is necessary to press the button **'Text'** which displays signs in the form of green crosses in the pictures. To read the text it is necessary to stop the mouse arrow on the crow and in the square beside it there will appear a message. Pressing the left mouse button on the cross enables to send the message to print. To do this it is necessary to tick off the squares left of the text of the message in the displayed form.

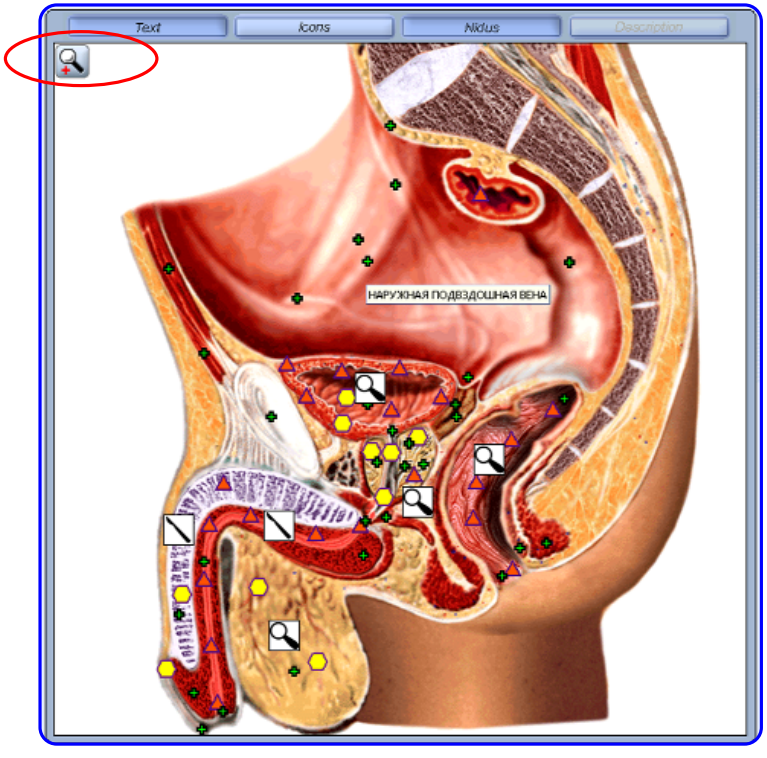
This mode offers opportunity of fast transfer to investigate some organs related to this investigation by means of icon. To do this it is necessary to press the button **'Icons'**. In the picture there will appear icons. To be able to see which organ is represented by the icon it is necessary to stop the mouse arrow on the icon, in the square beside it there will appear the name of the icon; pressing the mouse button on the icon shows the corresponding organ to be investigated.

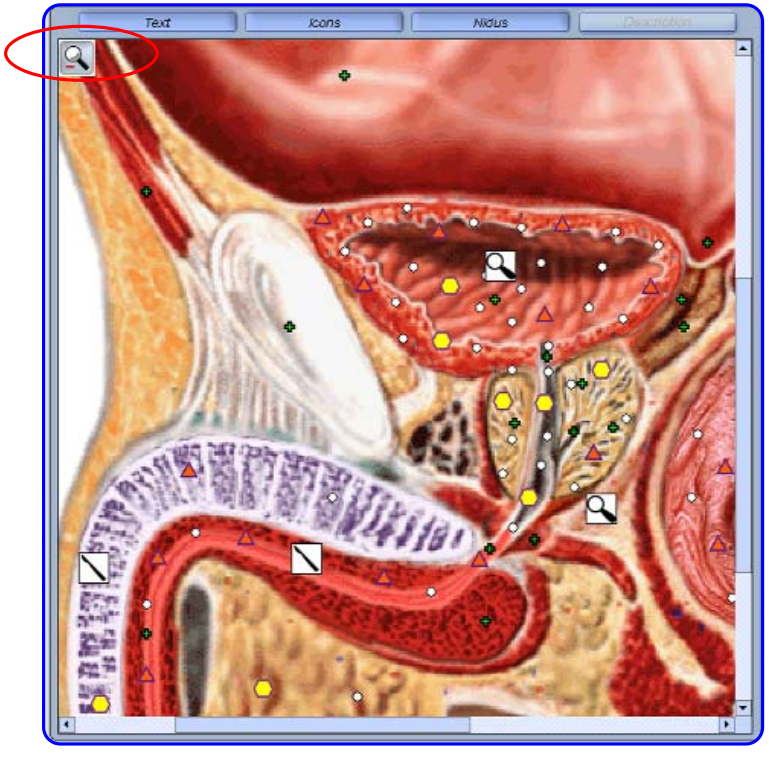
The button **'Description'** enables to give a description of the biological object shown in the picture.

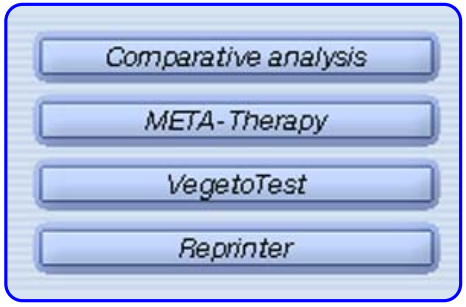
The button **'Nidi'** - enables to conceal or show the pre-marked nidi in the picture of the organ.

It is also possible to show **(conceal/switch)** the nidus by pressing the left mouse button with the arrow of the mouse pointing to the nidus.

'Scaling' - pressing the button with the **'+'** sign in the upper left corner of the picture enables to enlarge a fragment of the picture. Then it is necessary to click on the picture and by moving the mouse extend the frame. On singling out the enlarged fragment click the mouse again. Pressing this button restores the full picture from the fragment.

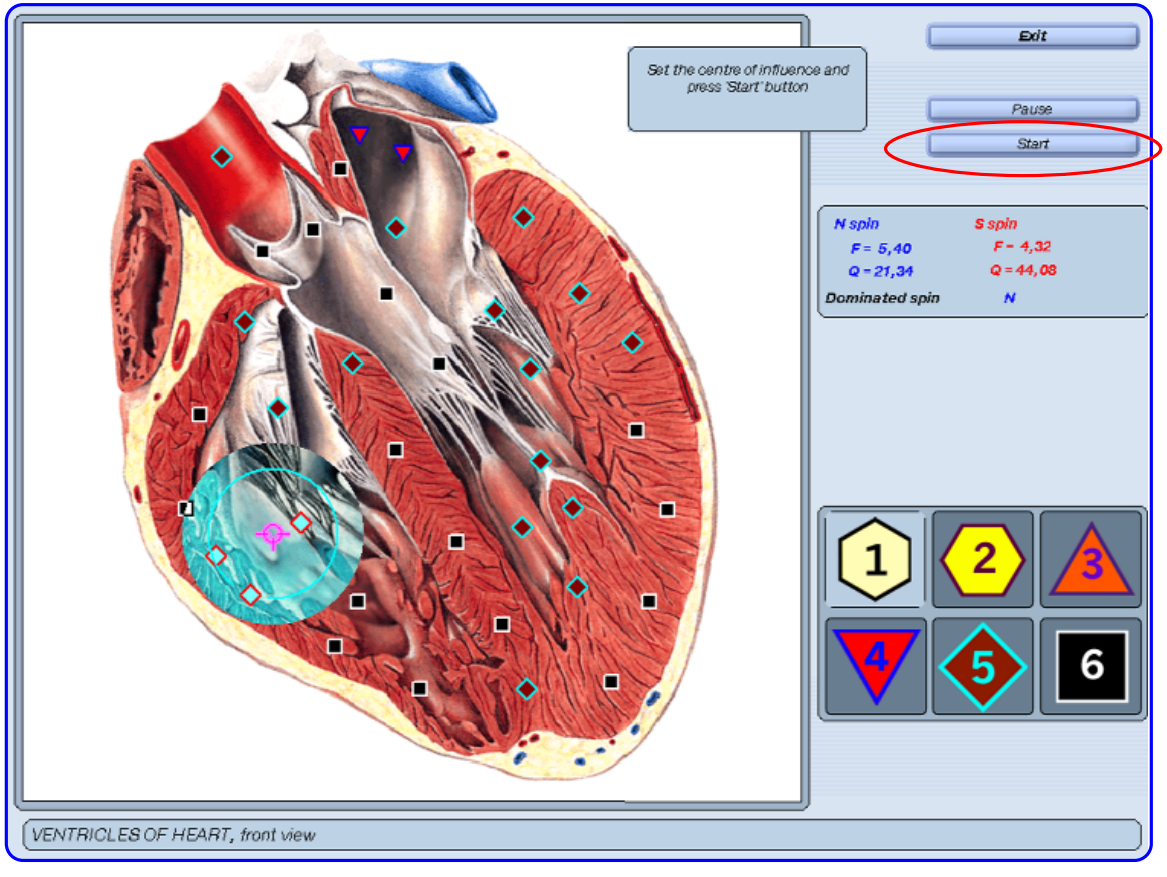




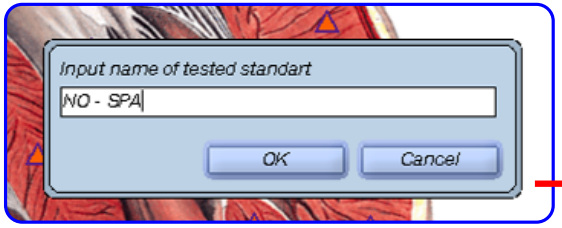


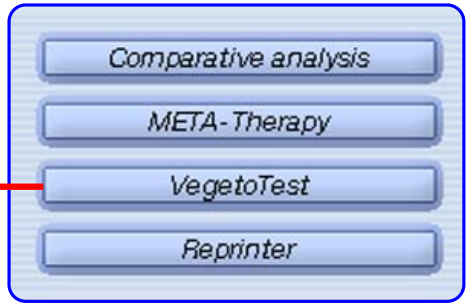
'Comparative analysis' - a comparative analysis of the investigation results with the patient under dynamic observation.

'Metatherapy' - by pressing this button you will enter the mode which will enable to produce a therapeutic effect using the infrared scanner onto the third eye area. In this connection it is necessary to position the center of influence on the organ projection and press the button **'Start'.**



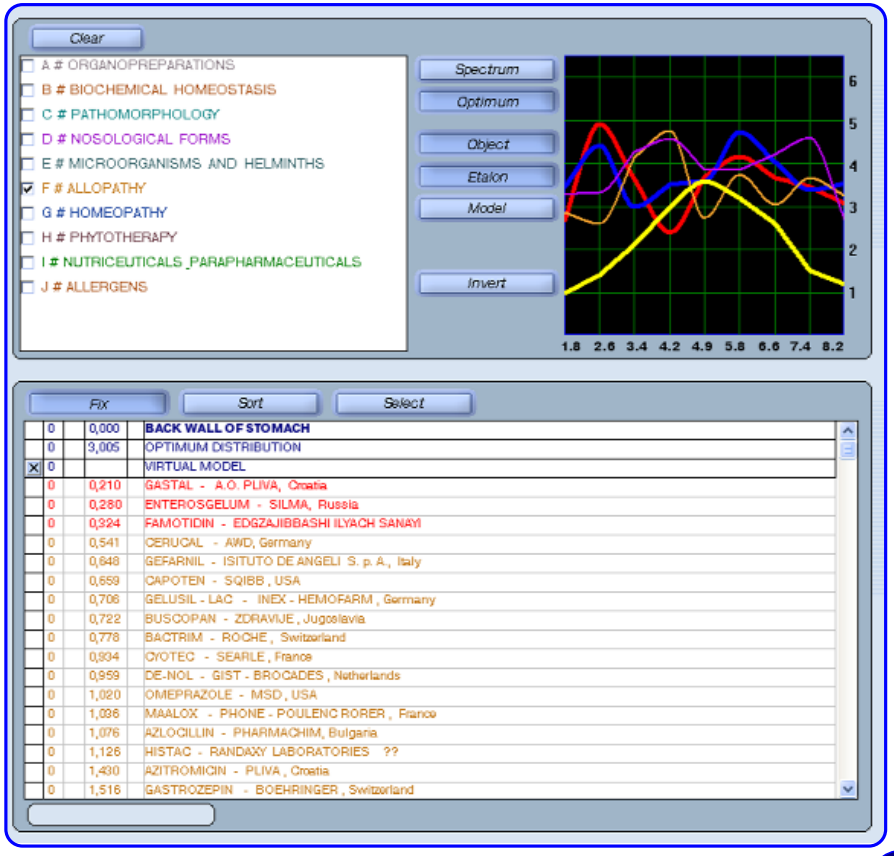
VegetoTest



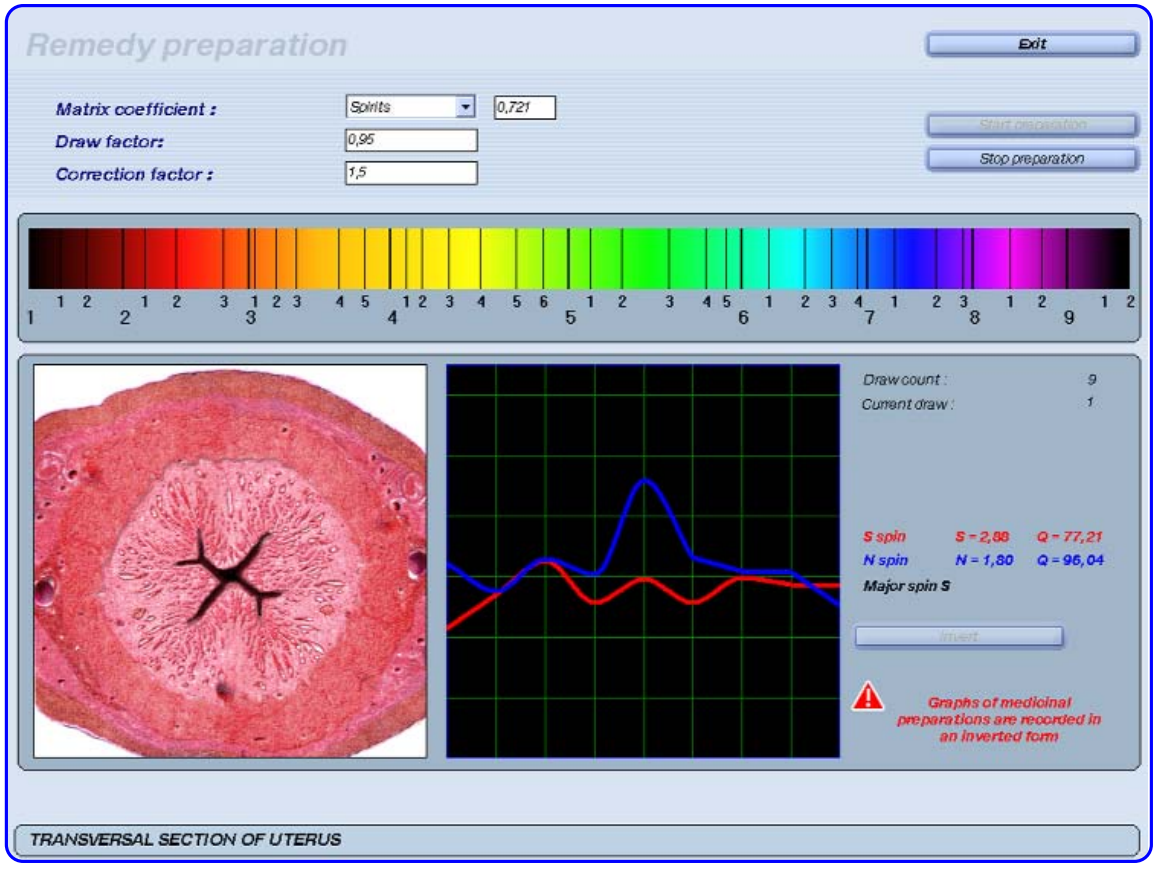


The use of the vegetative resonance test mode opens up wide opportunities and enables to introduce measurements of the patient's natural electromagnetic oscillations and electromagnetic oscillations of the etalons from the test-set - internal VegetoTest or taken by means of the resonance chamber - external **VegetoTest**, and determine the drug efficiency and tolerance as well as allergic sensitivity of the patient's body.

To make **VegetoTest** using a preparation that cannot be found in the directory of etalons of allergens, remedies or homeopathic preparations one should enter the mode **'Analysis'**, put the preparation under investigation in the resonance chamber, press the button **'VegetoTest'** and enter the name of the preparation to be tested. After that the button **'OK'** should be pressed. The dynamics of the vegetative reaction of the body to this preparation is best evaluated in the mode **'Comparative analysis'** which determines intensification or relaxation of the body's compensatory reactions provided there is information influence of the preparation under test.


Clear
A # ORGANOPREPARATIONS
B # BIOCHEMICAL HOMEOSTASIS
C # PATHOMORPHOLOGY
D # NOSOLOGICAL FORMS
E # MICROORGANISMS AND HELMINTHS
F # ALLOPATHY
G # HOMEOPATHY
H # PHYTOTHERAPY
I # NUTRICEUTICALS_PARAPHARMACEUTICALS
J # ALLERGENS
Spectrum
Optimum
Object
Etalon
Model
Invert
1.8 2.6 3.4 4.2 4.9 5.8 6.6 7.4 8.2
Fix
Sort
Select
0 0,000 BACK WALL OF STOMACH
0 3,005 OPTIMUM DISTRIBUTION
0 VIRTUAL MODEL
0 0,210 GASTAL - A.O. PLIVA, Croatia
0 0,280 ENTEROSGELUM - SILMA, Russia
0 0,324 FAMOTIDIN - EDGZAJIBBASHI ILYACH SANAYI
0 0,541 CERUCAL - AWD, Germany
0 0,648 GEFARNIL - ISITUTO DE ANGELI S. p. A., Italy
0 0,659 CAPOTEN - SQIBB, USA
0 0,706 GELUSIL - LAC - INEX - HEMOFARM, Germany
0 0,722 BUSCOPAN - ZDRAVIJE, Jugoslavia
0 0,778 BACTRIM - ROCHE, Switzerland
0 0,934 CYOTEC - SEARLE, France
0 0,959 DE-NOL - GIST - BROCADES, Netherlands
0 1,020 OMEPRAZOLE - MSD, USA
0 1,036 MAALOX - PHONE - POULENC RORER, France
0 1,076 AZLOCILLIN - PHARMACHIM, Bulgaria
0 1,126 HISTAC - RANDAXY LABORATORIES ??
0 1,430 AZITROMICIN - PLIVA, Croatia
0 1,516 GASTROZEPIN - BOEHRINGER, Switzerland

The internal VegetoTest is carried out in the mode **'Etalon directory'**. The preparation is picked out from the list of etalons where it has already been recorded as a digitized model, by means of the left mouse button. The mode is started with the button **'VegetoTest'**.



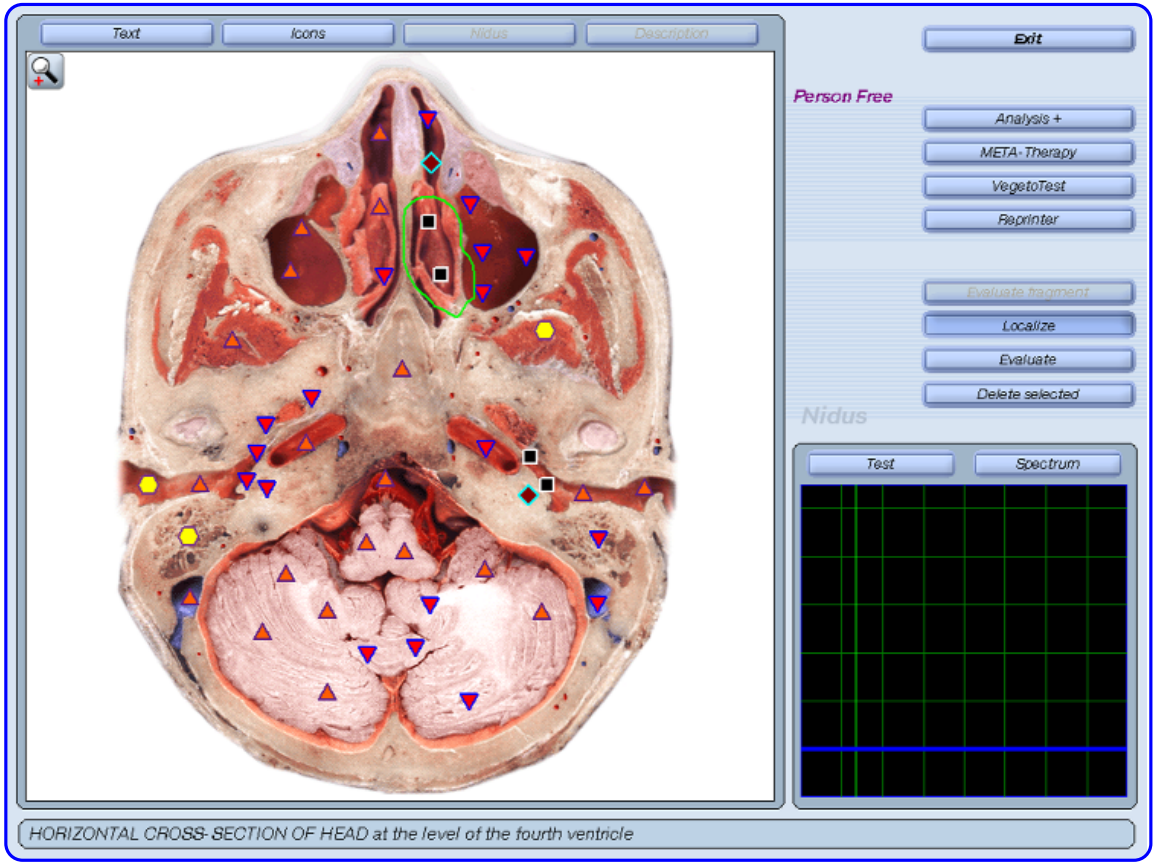
Reprinter

Enables to record any preparation on a matrix. To do this pick out from the mode **'Etalon directory'** a preparation effective as regards this patient **(the value 'D' is within 0.425)** and press the button **'Reprinter'**. One should bear in mind that all the medicinal preparations have been recorded in an inverted form so before making a preparation re-inverting is supposed to be done by pressing the button **'Invert'** in the graph, then a matrix should be picked just like it is done in making nozodes. After that the button **'Start making'** should be pressed.

The button **'Evaluate fragment'** - (is only represented in the version Metapathy-3) enables to make a more thorough evaluation of the marked area on the organ projection in the scaling mode.

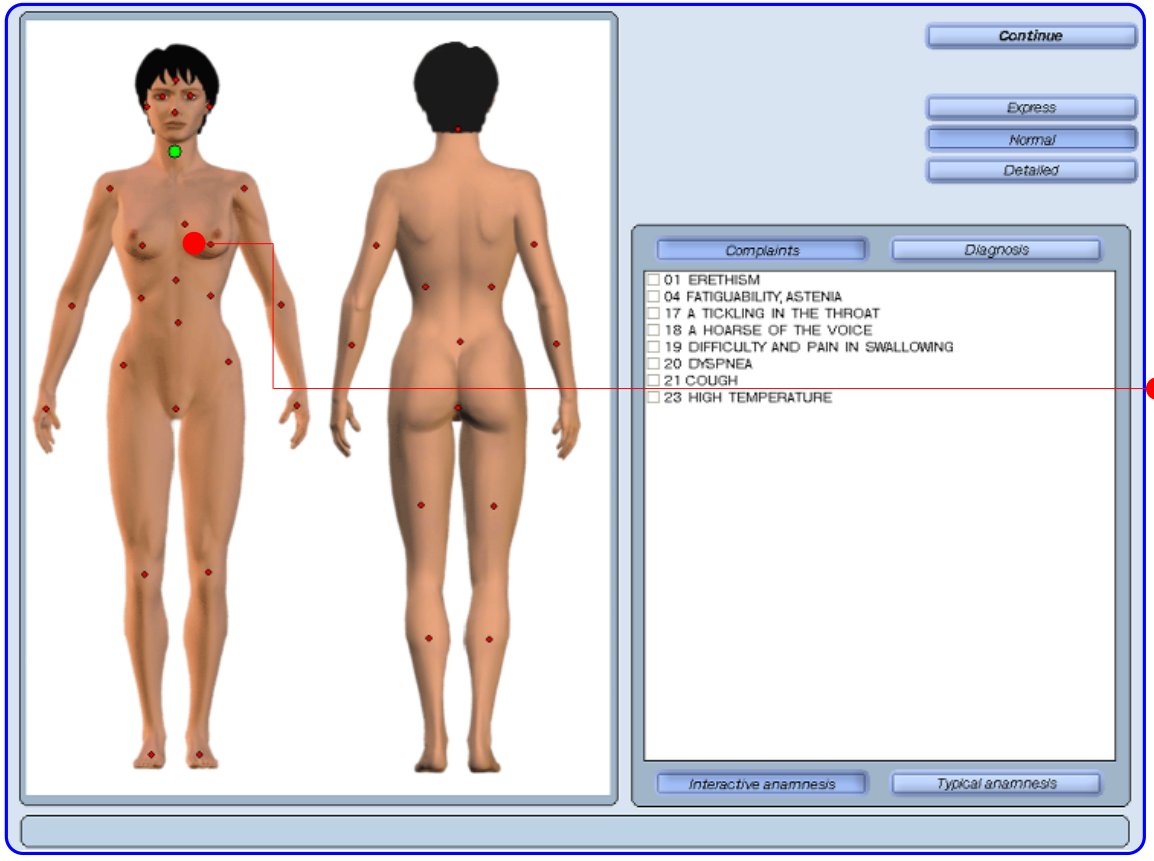
'Localization' - defining the boundaries of the nidus with most coarse changes in the organ's structure. To define the boundaries it is necessary to click the left mouse button on the organ projection to single out the area that is of interest. Clicking the left mouse button again closes the contour.

'Evaluate' - evaluated are nidi with most pronounced pathological changes in the organ chosen by the doctor. The evaluation goes on automatically with the unmarked organs and organs free of nidi being skipped.



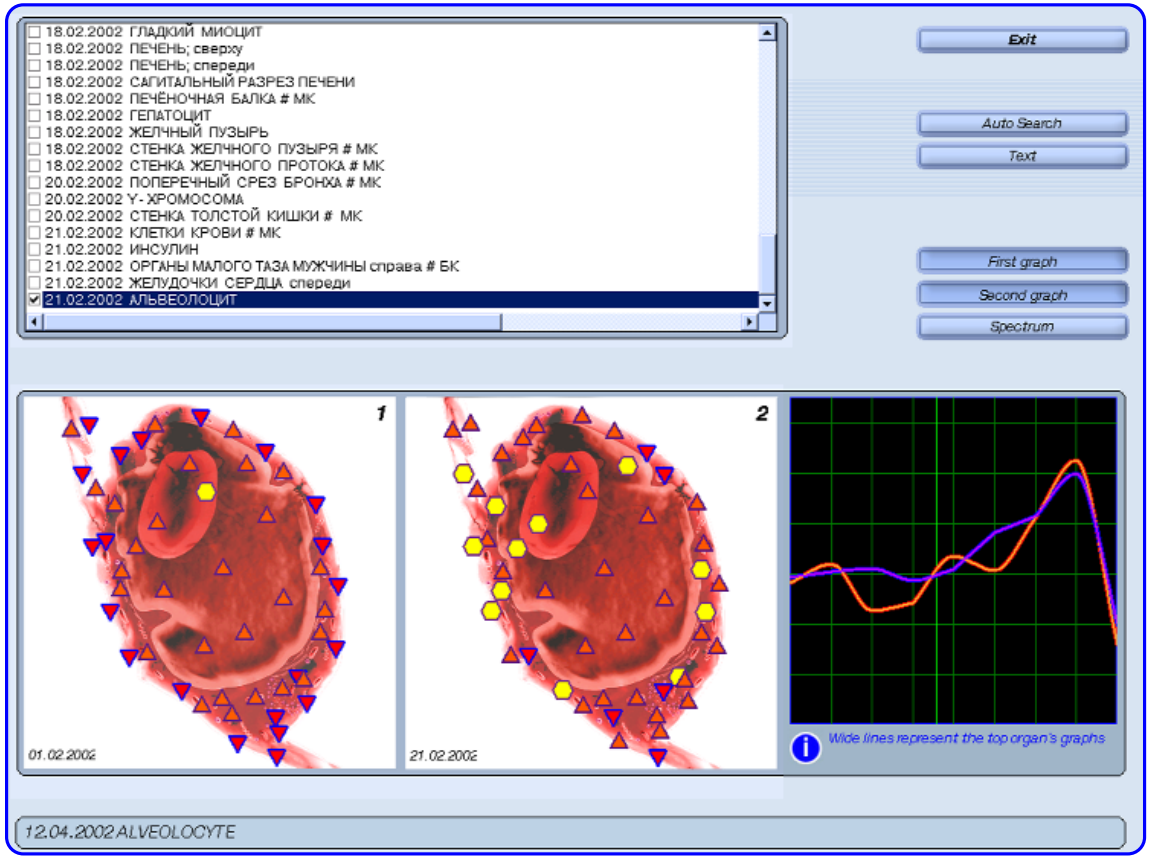
'Delete marked nidi' - enables remove the marked nidi. The nidi are singled out by means of the right mouse button.

Above the organ (nidus) graph there are buttons **'Test'** and **'Spectrum'**. Pressing the button **'Test'** displays the form **'Etalon directory'**. The button **'Spectrum'** displays an enlarged graph with the values of signal amplitudes in spectrum frequencies.



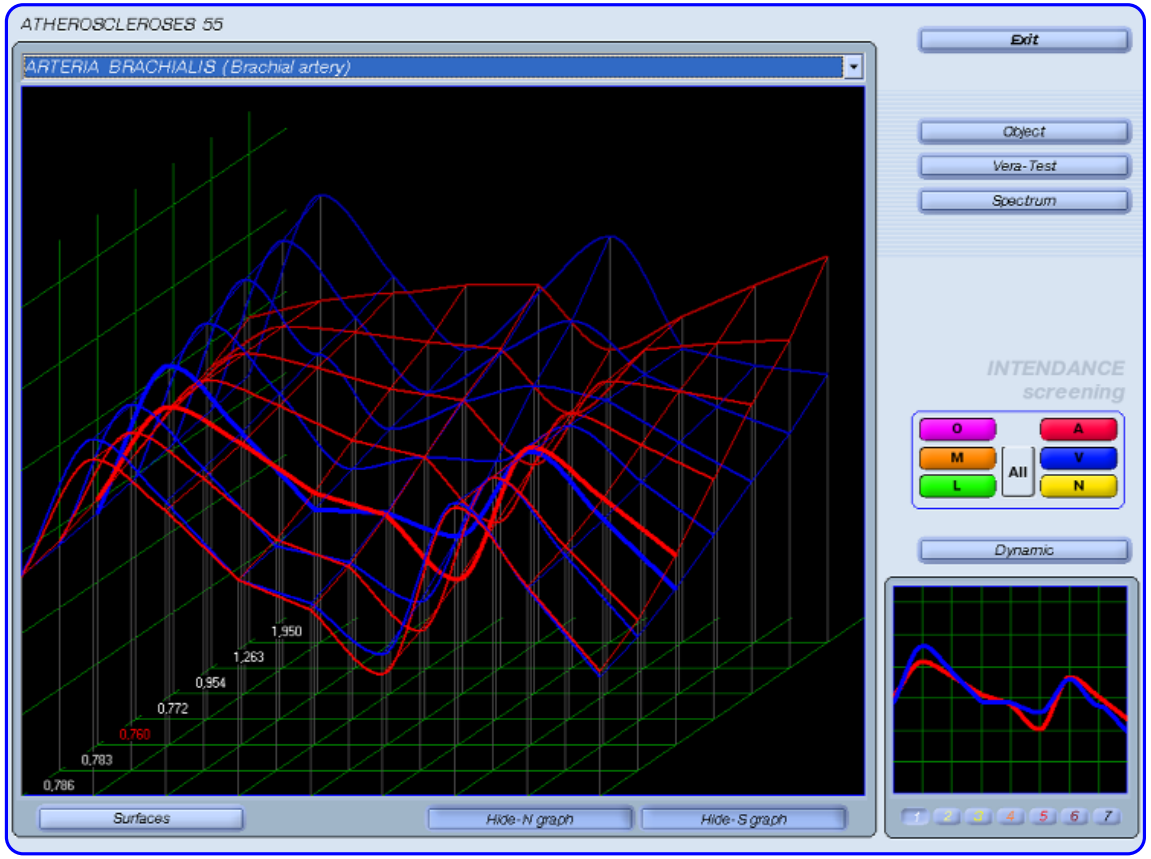
Interactive anamnesis serves to ensure the patient's ready contribution to anamnestic data collection and establish a closer link in dialogue **'Patient-Doctor'**.

Using the technique of dynamic point the physician can localize a pathology area on the body projection with the highest accuracy. One should bear in mind that only current complaints that occur at the moment of investigation get recorded, the complaints that were present in the past but are not present at the moment do not get recorded. The column **'Diagnosis'** marks only clinically pronounced forms of pathology confirmed by laboratory and functional methods. Completed resections of individual organs are supposed to be marked without fail.

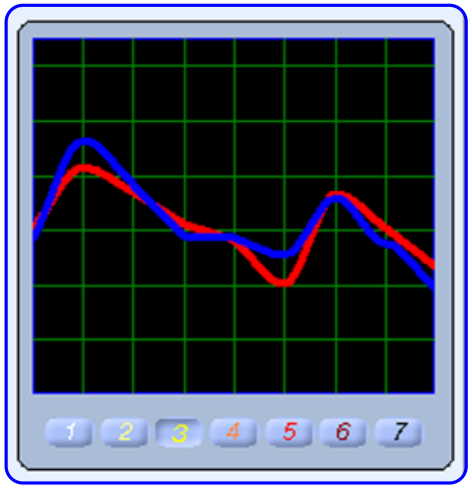


Comparative analysis enables to determine dynamically in time the condition of the compensatory reactions of the body in a digital representation according to the results of the completed therapy and also following the vegetative testing of the preparations. The left picture characterizes the initial state. The right one gives a dynamic representation of characterizes the condition after a period of time. The button **'Autoretrieval'** enables to automatically retrieve the organs to be compared in the common card file. The button **'Improvement'** and **'Aggravation'** enable to focus attention on the parts of the tissue structure where some changes has taken place.

Entropy analysis is accessible from the mode 'Etalon directory'



Entropy (two-factor) analysis enables to build a mathematical model of pathological process taking healthy tissue (organopreparation) as the initial (zero) phase and a clinically pronounced form of a pathological process as the final one and making a mathematical calculation for the graphs of a number of intermediate states. In the course of analysis the highest spectral similarity to any of the intermediate states or extreme states gets determined and thus maturity of this process and signs of a preclinical pathology are defined.



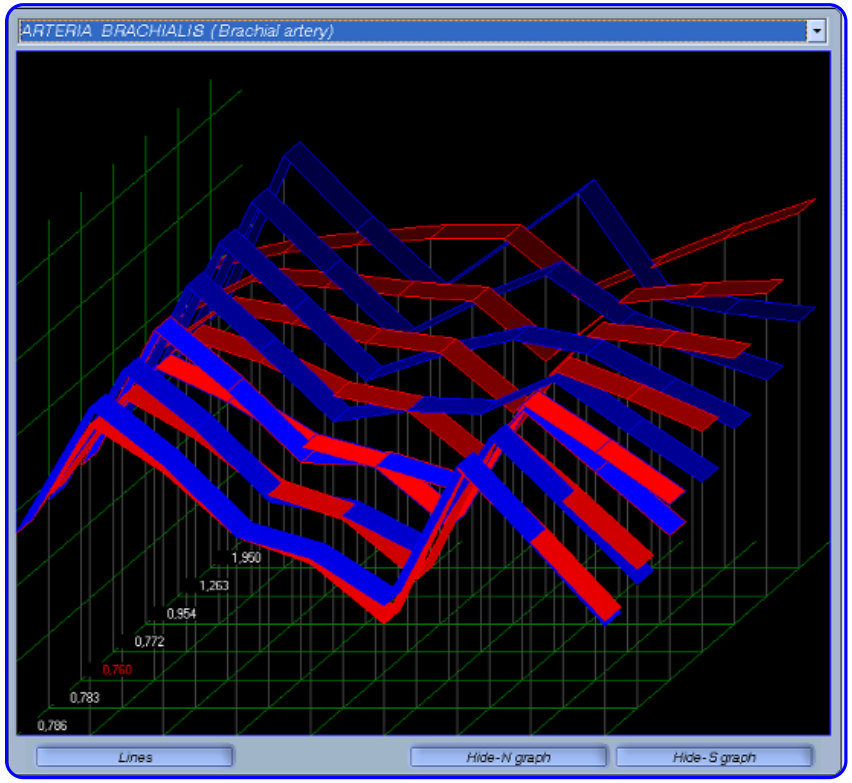
One should bear in mind that the values 1,2 of the entropy factor indicate that there are no tendencies in the development of the process under investigation, the values 3, 4 indicate that there are preclinical phases in the process development and the values 5, 6 indicate that the process in mature.

Low spectral similarity to the etalon (correlation over 1), if the entropy factor is as high as 5, 6, indicates a remission state of the pathological process against low adaptive reactions of the tissue.

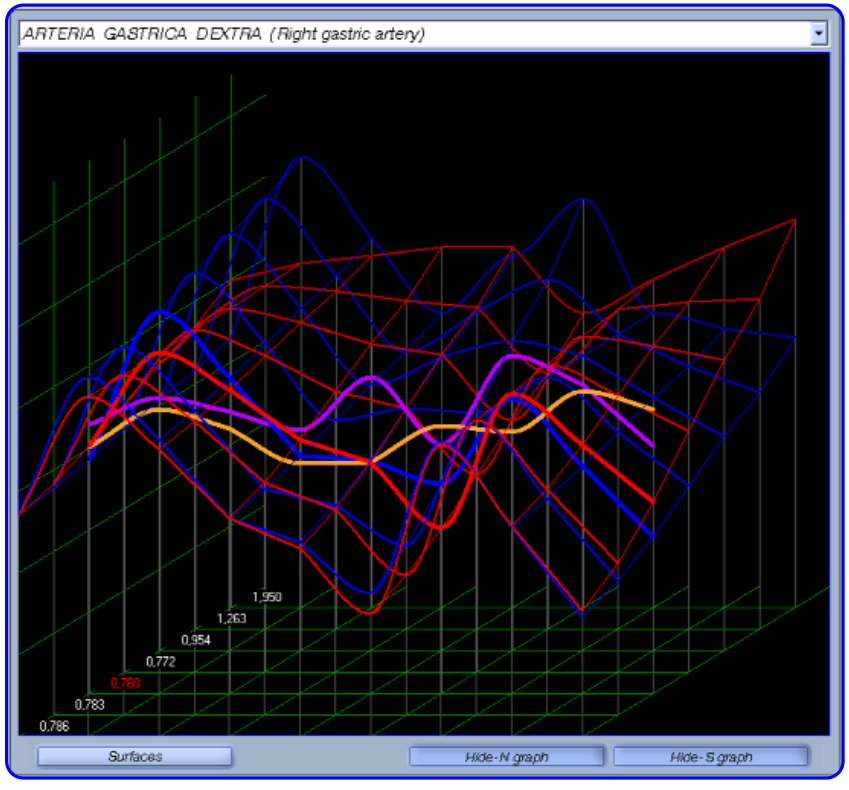
A small difference in the spectral similarity (dispersion) over the whole range of entropy factors from 1 to 6 indicates an acute process.

The most similar graph in terms of the spectrum is marked by a thick line in the graph and the digital value is marked red, in this case it is 0.760.

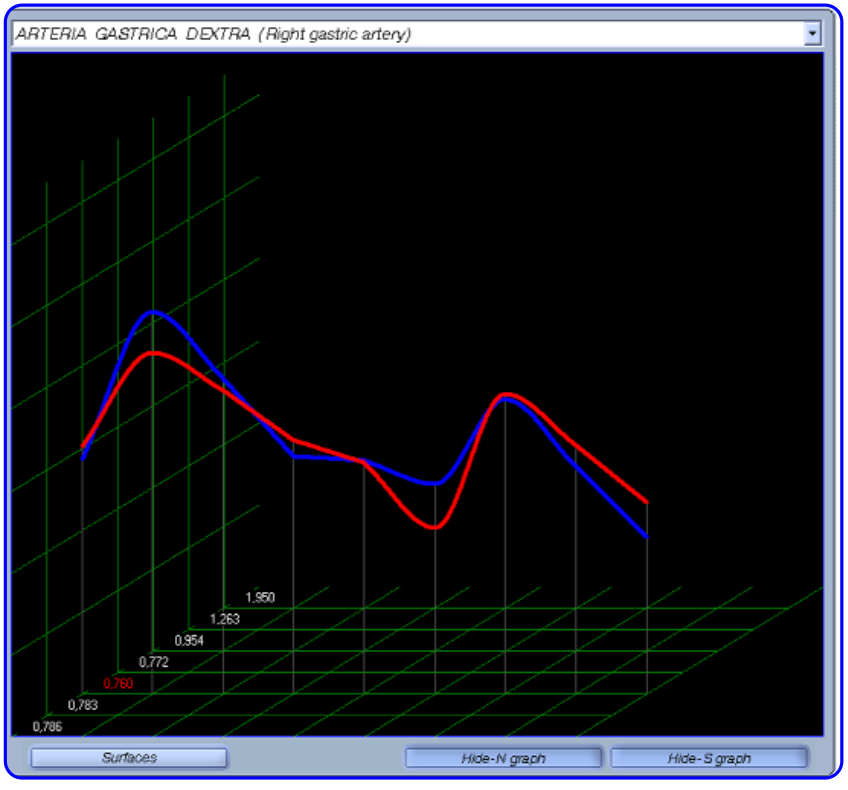
There are two buttons **'Conceal N(S) graph'** that enable to view the graphs separately or altogether, pressing the button hides the corresponding graph.



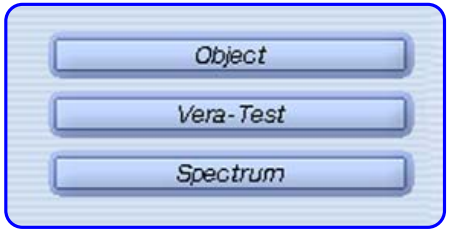
One can also view the graph in the mode **'Surfaces'** by pressing the button **'Surfaces'**, to get back to the mode **'Lines'** it is necessary to release this button.



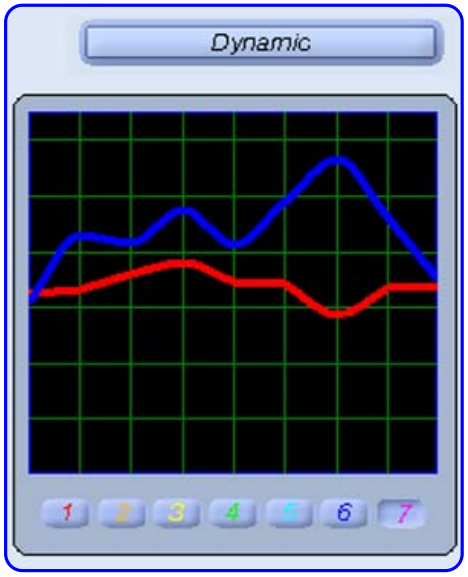
The button **'Object'** displays the optimum values for this process.



'Vera-Test' represents a graph with the closest spectral similarity.

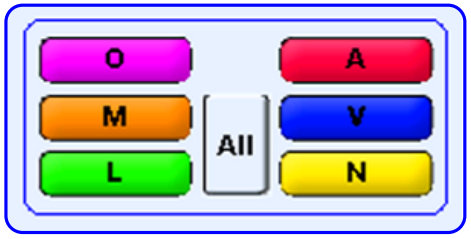


It is possible to trace the dynamics of the process by pressing the button **'Dynamics'** above the graph.



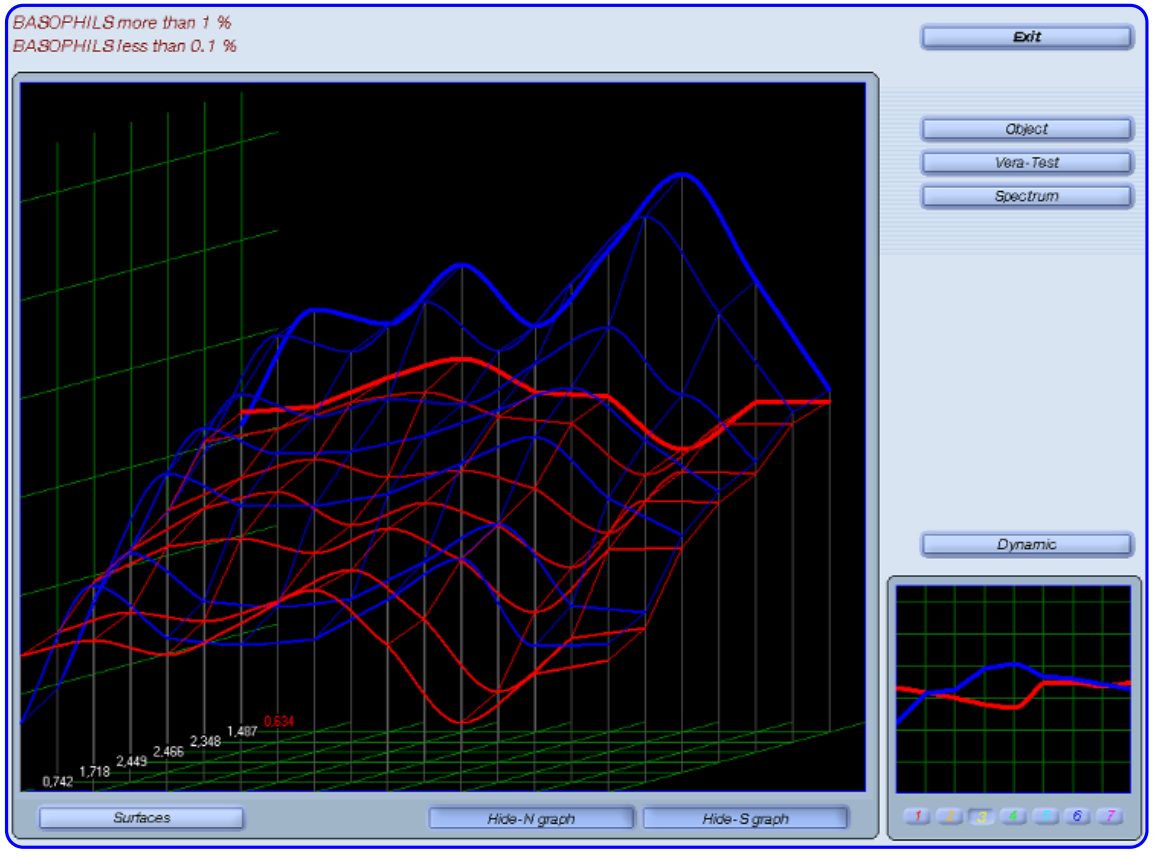
The button **'Spectrum'** displays an enlarged graph.
The key **'Exit'** enables to exit from the entropy analysis.

'Intendance-screening' (is only represented in the version Metapathy-3) enables to determine the extent of destruction of different tissues with a developing pathological process. It is possible to trace the pronouncedness of pathological changes both in all groups of tissue structures at a time **(the button 'All')** and in the mode of differentiation in individual morphological groups.



the button **'A' (red)** represents the arterial system;
the button **'V' (blue)** - the venous system;
the button **'N' (yellow)** - the nervous system;
the button **'L' (green)** - the lymphatic system;
the button **'M' (orange)** - the locomotor apparatus;
the button **'O' (lilac)** - the rest of the groups tissues not included in the above-mentioned list.

NLS-analysis is accessible from the mode 'Etalon directory'



Multidimensional NLS-analysis is identical to entropy analysis except that in NLS-analysis all intermediate stages are recorded as etalons from patient's bodies in different stages of the developing process under investigation which enables to build a more accurate model of the pathology development. This is a very complicated and laborious type of process record so NLS-analysis is used solely to evaluate malignant processes and biochemical factors.

Analysis of oncoprocesses by an NLS-analysis graph makes it possible to trace the possibility of an irreversible state in the pathology development. Growing amplitude of the output signal (the blue line in the graph) indicates intensification of the compensatory mechanisms. On reaching the maximum value the input signal graph may drop abruptly with high amplitude values of the input signal (red line) which indicates a failure in adaptation mechanisms and development of irreversible states.

The program was developed under the guidance of Vladimir I. Nesterov, director of the Institute of Practical Psychophysics, Vice-president of International Academy of Non-linear System Diagnosis, a corresponding member of IAICS.